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; Search time 3976 Seconds
(without alignments)
17294.919 Million cell updates/sec october 22, 2002, 08:46:06 Run on:

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IDENTITY_NUC Gapop 10.0 , Gapext 1.0 Scoring table:

Sequences

1797656 seqs, 10463268293 residues Searched:

3595312 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

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ALIGNMENTS

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RESULT 1 AY032953 LOCUS DEFIRITION ACCESSION VERSION KEYWORDS	SOURCE	REFERENCE AUTHORS TITLE JOURNAL	FEATURES Source

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QY 2297 pb 2276	ACCTGAAT 23 CCTGAAT 23	
Oy 2357 Db 2336	GGTGAACCATCAAATGAAAAGTC 	
Oy 2417 Db 2396	AGITTOGAACAGOGAIGGTOTAATOIAAAGGGAG 247 11 HILLIHHH HI HHH AGATTOGAACAGOGTAATTIGAATOGAG 245	
Ω_Y 2477Db 2456	AAGGGGAAAAGGGTTGACATGCGAGGTGATGTAA GTG 	
Qy 25.37 0b 2516	SOCITION PERCONAGO ANTEGRANCE TO SEGMENT TO	
Oy 2597 Db 2576	TI FGAAAGCAAFGACTAAAGGGGGGGCAGGTGAAGAAA 26 	
0y 2657 0b 2636		
RESULT 2 AF096250 LOCUS DEFINITION ACCESSION VERSION KEYWORDS SOURCE ORGANISM	AF096250 A Specification of the mana linear Fin 02-AUG-1999 (ER50) mana, complete cds. A AF096250 AF096250.1 G1:5669641 Lomato.	

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/MCKVPDLDLMDQRMMQCHESVQLCIALATELSEATHERTHERWINGTRUNGS

RKGVPDLDLMDQRMMQCHESVQLCIALATELSEATHERTHERWINGTRUNGS

STASAVTMSHKLMINGCMSTFDKVPDGFYWITGHDTYVWALGSVVQHSORTHERTER

AVDPSKAPSVEVIT IDP/NPLSTFERGORTHERTSPS/1:1REAVE-STRUNGS-NET-STLSTL

AVDPSKAPSVEVIT IDP/NPLSTFERGORTHYLDFGS-SVGLCHREALL-KWVANTHILD-NFL

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Eukaryota, Viridiplantae, Streptephyta, Emtrysphyta, Inchrephyta, Spermatophyta, Magnoliophyta, eudientyledoms, entre endiets;
Agforidae, enasterids 1; Solangles; Solanaceae; Scianoms, Lycopersicon,
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/note "serino, Thro with Winaso, similar to Anabidopsis
thaliana negative requiator of the ethelene response
pathway encoded by GenBank Accession Number Leafson
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Submitted (02 OCT 1998) Lab 'ETHYLLENE', EMSAL INKA, Archite de
l'Agrobiopole RP 107, Auzeville Tolosan, Castanet Logosan cod
31326, France
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Zoultivar "Evita"
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Best Local Similarity 67.8%; Fred. No. 9.50-244:
Matches 1512; Conservative 0: Mismatches 679:
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Zegzouti, H.
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LSIVTEYLSRGSLYRLLHKPGAREVLDERPRICMAYDVANGMNYLHKRNPPIVHEDLK
SPNLLVDKKYIVKICDPGLSKPKANIFLSSKTAACTPEWMAPEVIRDERSNEKSDVYS
FGVILWELATLOQPWNKLNPPQVIAAVGFNKRLDIPSDLNPQVAIITEACWANEPWK
RPSFSTIMDMLRPHLKSPLPPPGHTDMQLLS"
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DAQSPMTRPDTVNDTRFLAGGGHVVSAIPSEBLDLDVEEFNIPWNDLILMEKIGAGSF
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                                                                                                                                                                                                                                                                                                                                                                                                          ond Univ.
Kowloon,
                                                                                                                              Lycopersicon esculentum
Eukaryota: Viridiplantae: Streptophyta; Embrycphyta,
Spermatophyta: Magneliophyta; eudicetyledens, eure e
Asteridae; euasterids I: Solanales; Solanaceae; Sola
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Submitted (19 MAY 1997) Y. Wana, The Hong Kong Univ
Tech., Biology Department, Clear Water Bay, Kowloon
Location/Qualifiers
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                                                                                                                                                                                                                                                                           sequence isolated from the ripening tomato
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/protein_id>"CAA73722 1"
/db_xret-"GI:2370253"
/db_xret-"SpiWFMBL-024027"
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Pred. No. 9.5e-234;
0: Mismatches 679;
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Plant Physiol, 114, 1135-1135 (1997)
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<u>۲</u>	187	AFGAAAGGTGTGGGAAGTGGAGGTTCG	513
ą	5.23		579
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ā	880	CTTCAATTGAATCATTAAGAGCTGTTGATTCTGGTGTTGATTCTTCGCTTGAAGCGATC	686
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د ≺	1288	CAACCTGATTCTTTGCTCAATGGTCCATCATCTCAATTTCTTCACCATTGCGATTT	
<u>ہ</u> ہ	1348	CCAAGACTAAAAACTATTGAATCTACCATTGATTTGAGGTCACTGGCCAAACAGTATTTC 	
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8	1468 CCCAACCA	ACCATGGGATTGGCCTCTALCAAACCCA TAAAA AAAAAAAAAAAAAAAAAA	
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QO	1675 ATGAAIGCC	IGCCCCACCAATCAGTCAGGCAGTTCCAAAAAGGGCAAAIAGGAAATTGGAATII	•
0.7	1828 GGCTTAGAA	AGAAGATTTGGTTATTCCATGGACAGATCTTGATTCAAGCAAAAAAATTGCAAGAA TRR?	~ .
qq	1735 GATGGTGAI	TGATGATATGGACAFCCCGTGGTGTGATCTTAATATAAAAAAAAAA	
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QQ	2275 CCAGA	AGTCCTGCGAGATGAGCCGTCTAATGAAAATTAAGATGTGTAAAAATTTAAAAAATAAAAAA	- ;
Qy	2425 ATTTPGFGG	73	
qu	2335 ATCITIC	GIGGGAGC FIGGTACATTGCAACAACCATGCGGIAACTIAAAD GOSG FAGGI 2344	
0.7	2485 GTCCCACCTC	AGCTGTTGGATTTAAGGGGAAAAGGTTTGACATGGAAGGTGTGAATGGAAFGGAAAAAAGAAAAAAAAAA	
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Location/Qualifiers
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Lobases 1 to 1795;

El Sharkawy, I., Li, Z.G., Latche, A. and Lelievre, J.M.

Ripening related genes in pear (Pyrus communis)
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El Sharkawy, L., El,E.G., Latche, A. and Leijevre, E.M.
Direct Submission
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Maturation des Fruits, INP - ENSAE, Av. de l'Agrociopole et
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Location/Qualifiers
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Third Street, Bloomington, IN 47405-3700, USA
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Direct Submission

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thaliana CIRI MAPKEE, corresponds to predict
F22o13.21 encoded by AC003981 except lacks 5
Prye.C.A., Tang, P. and Innes, R.W.
Direct Submission
Submitted (i8 SnP 2000) biology, indiana University
Third Street, Bloomington, IN 47405-3700, USA
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Direct Submission
Submitted (20-MAR-2000) Laboratory of Mioradaptation. Gradu.
School of AgricultureAgriculture, Tohoku University.
Tsutsumideri-amamiyamachi I LAcha ku, Sendal, Miyadi 981,
Location, Qualifiers
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A cina vione (AAQ5731) and a denomic vione (AAQ57312) coding for the wild-type constitution triple respons? (TE) queric in plants have been isolated. The ctr gene encodes a protein resembling the Ratiamily of serine/threonine kinases. Viki and EINS gene products are apparently required for transduction of the ethylene signal in both etiolated seedling and adult plants. The putative CTR1 kinase is postulated to act as a negative regulator in the ethylene signal transduction chain. Mutations in the ctr gene result in a constitutive "ethylene" phenotype. See also AAQ57913-Q57915. ~ - -402 476 46.1 AAPPETENAGGAAATGAGATGAATGAATTGGAATATATGCTCGATGATGATGAGATTTCCGAGTG 486 6) (3 6,6,7 4.4.4 687 764 819 2018 5/X TICTEGGTAAATGGATGCATGTCATATTTGGAGAAAGTGCCAGATGGTTTTTATCTAATT 747 46.7 ATGATG ATTENTAGACIAGGNACTITINAGATGGTTAFEGATITICAGGTGAGGCCATGTGGCATTGG ATAPOGGAGGAGTETOGTETAGGGAGTTGGGGGAAATTGAGGAAAGGGTTTGAGATGGT PARAGARGACCIATATGTARGEFATTATGTAICTAAATGTGCAAGAGATGGGGGGTATA 313 PAGGCGTATCGGATAGGGAACCTGT = - - - ALPPATGGATTGGTTTACAGAGACALTCC CGCATC AGTGCGAGTAGTTICGGTGAGAGCTCTITGTCTGGGGATTATTACATGCGTACGCTTTC-TEGALAGAEGGCALAGEGALGGTEAGULTAAAAGAAGTGCAAAAAGAGGTGCATAATATT 2890; 516; AATGST-STGGSTGGSTATATTTGGAGGTTATGGATGGATGGAAAGTGGT FICTOGGITAATGGCTGCTTATCGTACTATGATAAAGTTCCTGATGGGTTTTAT constitutive triple response genes and etr mutants - exhibitablemetype resulting from exposure to ethylene in wild-type plants, eq in response to stress DB 15; Length 2 5c 232; 8 663; ladels 1 727 d; 835 T; 0 other; Obery Match Best Land Similarity 64.4%, Pred. Ro. 2.5c Matches 1583; Conservative 0; Mismatches Claim I: Page 28-34: 69pp; English Sequence 2890 BP; 748 A; 580 C; PI: 1994 - 85280208 PSDB: AAR46723. #5.61 CIDM × + Ē $\frac{\hat{\Xi}}{\Xi}$ î Ê $\frac{\hat{\Xi}}{\hat{\Xi}}$ ä Ś $\hat{\Xi}$ $\hat{\bar{\Xi}}$ <u>ٿ</u> <u>-</u>

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The CTR1 gene was mapped to an interval between 2 RFLFs in chromosome 5 of A. thaliana and a chromosome walk in this area was initiated using a YAC library. 2 Clones were isolated and used to probe a cENA library derived from polys KNA from 3-day-old dark-grown, ethylene treated A. thaliana seedlings. The cFNA for the CTR1 gene is given in AAQ38816. Expression of the CTR1 aene in transgenic plants results in a dominant ethylene insensitive
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DB 18; Score 898.8; DB 18, Pred. No. 6.9e-232;); Mismatches 664; <u>-</u> ATGAAAGCTGTGGGAAGTGGAGGTTCG----Claim 1; Column 19-26; 41pp; English. 313 CAGGGGTATCGGATAGGGAACCTGT---0; 94US - 02£1432. 92US - 0928464. 93US - 0003311. 9205-0928464. 27.4%; 64.3%; (UYPE-) UNIV PENNSYLVANIA. /*taq==a /product: Conservative Kieber JJ; 1997 - 131867,712 Similarity P PSDB; AAW17938 17-JUN 1994; 10-AUG-1992; 12-JAN-1993; 11-FEB-1997. 10 - AUG - 1992; Matches 1582; Ecker JP, Local ¥ 87 £0‡ 520 487 Š <u>₽</u> 3 ć D) $\stackrel{\sim}{\sim}$

<u>q</u> The present cDNA sequence represents the constitutive triple response (CTR) gene. This sequence is used to transform plant cells. The plants overexpress the Arabidopsis thaliana CTR1 gene, which results in insensitivity to ethylene. This benefits plants in relation to stress such as infection due to pathogens (i.e. bacteria, viruses and fungi), wound healing and soil penetration. Since ethylene affects various agriculturally important plant processes, e.g. fruit ripening, flower and leaf senescence and leaf abscission, the ability to control ethylene sensitivity could improve the quality and longevity of crops. 426 486 513 579 253 AAAGGGAGAACCGATAGGGTTTTTGATTGGGAGAGTGGTGATGATGAGGGTTAAACACG 312 461 519 567 639 669 627 587 759 resulting and Gaps 700 GTACCGGACGAGTCTGCTTTTTTCGCCAAGTTCAGCGGAAACCGTTTCACATGGT AACCCTGCAAATGAGATCAATGCATTGGAATATATCCTCGATGATTTCCGAGTG AGAGGCGGATTTGATTGGCATCCTAGCGGTGGTGGTGGTGATCATAGGTTGAATAAT -- TGCGGCGGCTAACGAGATCGAATCTGTTGCATTTCCTCAAGATGATGGGTTTAGGCTT GGATTTGGTGGTGGAGGAGATTTGAGGATACACATGGGGGGAGGGGAGTGGGGGG TEGGTECTTAGGCTTTCTTCAGATGNNACTTGTGCCGATGATCCCAACTTTATGGATCCG --ATTCATGGATTGGTTTACAGAGACATTCC 3033; 216; Plants over-expressing constitutive triple response gene in insensitivity to ethylene which can improve the guality longevity of crops e.g. by affecting fruit ripening Length Indels Sequence 3033 BP; 797 A; 605 C; 751 G; 880 T; 0 other;

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Oy	688	TTC1GGCTAAATGGATGCATGTCAPATTTGGAGAAAGTGC7AGA1GG11111AIC1AA11	<u> </u>
qn	76Û	Ilcrossitaaissersettateiantaleaiaaaneetii.Alaleae	
QY	748	CATOGOATOCAATATGTATGCTCATTAIGCACCAATCTCCAAGAGGAIGGGGCTATA	(1)
υŁ	820	GGATGGGTATATITG	47.4
ζ	មិប្រ	ACAGLIGALL	46.7
qq	880	TGAATCATTAAGAGCTGTTGATTGT	÷
Ċγ	863	TGGGGATAGTGATGGTAGGTTAAAAG	~ Z
qu	940	ATCCAGCCTTCAAG	5
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Uh	1060	GGGTCCACTTATCATGGGGGGAAGAGGAGI FOGI LOC	
ΩY	1048	TTTGGGATCTGCTGTGATTCCC	-
Lib	11.20	FITAAAAGAAATCTTT	17.
ćλ	1,08	TCGTGCTCTTTATTCAAAGTCCTAGCTG	-
οQu	1177	CAGACATCGAGCTTTACTCTTCAAAGTACTGGGTGACATAATTG	7.7
٥y	1168	TGTCGAATTGCCAAAGGATGTAAATATTGCACTAGAGATGATGCTTGATGTTGCCTTGTT	771
Db	1237	TGCCAAAGGATGTAAAAATTGAAAAAAAAGGAGAAAGGAAAAAA	16.71
Qy	1228	AGGTTCGGGCTTGATAGGGAATATCTCATCGATCTGATTGGGAGGCCAGGITCCTTATAA	<u>z:</u>
CL	1297	GTTGATAGGGAGTACCTGGTIGALIAG	÷. -
OY	1288	CAACCTGATTCTTTGCTCAATGGTCCATCATCCATCTAAATTTCTTAAAAATTGCGGATTT	÷
qq	1357	FCCTTGCTAAATGGTCCTTCATCTATCTC	=
Qy	1348	AAAACCTATTGAATCTACCAITGATTT	- -
qa	1417	GAACCC	7. 4
Oy	1408	CCAATCACTTAATCTTGTATTTGATGA	<u></u>
qa	1477		
QY	1468	Tectecatreress	
ОС	1520		2/3
Q.Y	1528	AAAACCATACTGCTTACTGCTCACAAGGACAGAATTCTCAGTTATTATAAAAAAAA	x
qu	1576	GACGCAITGGCAGAAAA'GGTG	F.
ÓΥ	1588	GCCCAACTGAATACTCAAGATGGAAAGTCTGAGCAALTTAGALGALGLGLGLTGTTTTTTT	-
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QŸ	1708	ATTGGTTGTGAAGATTGGGAGCATGTTAGGATTGTGTGATGCAAGGATGGAT	, , ,
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The present sequence is given in a specification relating to the EDRH gene located on Arabidospis thaliang chromosome; hetwern markers of ATEATI and NCCI. The disruption of the EDRH gene is associated with changed transfer of chemical and NCCI. The disruption of plant Fakhagens or other disease-causing agents. A mutated transgene comprising the EDRH gene disease-causing agents. A mutated transgene comprising the EDRH gene captured at residue 696 of the of kinase-encoding domain may be introduced. A transgene which expresses a sense strand of the EDRH gene may be introduced to produce fertice Arabidospis thaliang the EDRH gene may be introduced to produce fertice Arabidospis thaliang plants. Transgenic plants exhibiting the desirable phenotypes of pathogens can be used for plant breeding, or enhanced resistance to plant or pathogens can be used for plants breading, or directly in adricible to produce plants with cubanced or combined phenotypes. EDRH unclose to detect the presence and/or expression of EDRH genes and to identify related genes from other plant species, such
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1804 AGAAAACCAAATGAGCTTTCCCTTGGCTTAGAAGATTTGGTTAT100A1GJANAGA1011 1863
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                                                                                  The present sequence is given in a specification relating tagene. Cocated on Arabidopsis thatland chromosome 1 between massocial and NGC1. The disruption of the EDR1 gene is associal enhanced resistance of a plant to plant pathogens or other disease causing agents. A mutated fransgene comprising the mutated at residue 696 of the of kinase-encoding domain may into the plant genome to reduce expression of EDR1. Alternation that expresses part or all of an antisense strand
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"site of X-ray-qenerated deletion of
nucleotides 2348-2364 (GTCTCTTAATCTTGTTT)
from wild-type ctr genomic sequence AAQ57912"
                                                                                                                                                                                                                                                                                                                                                                                                                                                     A cDNA clone (AAQ57911) and a genomic clone (AAQ57912) coding for the wild-type constitutive triple response (CTR) gene in plants have been isolated. The ctr gene encodes a protein resembling the Raf Lamily of serine/ threonine kinases. The ctrl-2 mutation (AAQ57913) has a 17bp deletion from nucleotide 2348 to 2364 of the CTR genomic DNA sequence. The mutation was generated by X-ray mutagenesis and results in a constitutive "ethylene" phenotype.
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phenotype resulting from exposure to ethylene in wild type
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Constitutive triple response gene; etr; ethyrene phenotype;
plant hormone; stress response; constitutive mutant;
serine kinase; threonine kinase; raf family; transgenic plant;
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phenotype resulting trom expessive to ethylene in wild-type
plants, ea in response to stress
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69.4%; Pred No. 46 31;
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1178 GGTTAATGGCTTATGGTAGTAGTAGATAAAGFTCCTGATGGGTTTALALGALGAATGG [LA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Seeds of A. thallana ecotype Columbia were subjected to X ray mutaged triple response by plating on agar in the absence of added ethylene in the dark. Sequence analysis of isolated mutant eth 2 genemic ENA (given in AAQ98818) indicated a 17 bp deletion beginning the position corresp. to position 2770 of the wild-type genemic sequence (AAQ98317). Transqenic plants expressing tribertic attimutations resemble ethylene treated wild type plants.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New constitutive triple response genes and mutants - isolated from Arabidopsis thaliana, used to produce transgenic plants with improved properties
                                                                                CTR1; constitutive triple response; transgenic plant; ethylene:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      improvement; mutagenesis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                              Arabidopsis CTR:-2 mutant genomic DNA.
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10-AUG-1992;
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AAQ98818
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A PDNA clone (AAQ57911) and a genomic clone (AAQ57912) coding for wild-type constitutive triple response (CTR) gene in plants have been isolated. The ctr gene encodes a protein resembling the Raffamilly of scring/through kinases The ctrl 1 mutation (AAQ57915) has a T to A point mutation at position 4378 of the CTR genomic DNA sequence. The mutation was generated by DEB mutagenesis and results in a constitutive "ethylene" phenotype.
                         890;
                                                                                                                                                                                                                                                                                                                                                       Constitutive triple response game, etr, ethylene phenotype, plant hormone; stress response; constitutive mutant; serine kinase; threonine kinase; raf tamily, transgenic plant;
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                                                                                                                                                                                                                                                                                                                              Arabidopsis thaliana ctrl-1 constitutive mutation.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 155.2; DB Fred. No. 4e 31; 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
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69.48;
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211; Conserv
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                                           ch 4.78; Score 155.2; DB 16; Length 6299; C Similarity 69.48; Pred. No. 4.2e-31; 211; Conservative 0; Mismatches 93; Indels 0:
Sequence 6295 BP; 1815 A; 1104 C; 1295 G; 2081 E; 0 other:
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The present sequence represents the ctr 1 2 mutation of the constitutive triple response (CTR) gene. The mutation is a 17bp deletion beginning at position 1995 of the wild type genomic DNA which is predicted to result in a trame shift in the coding region, and was produced by X rays. This sequence is used to transform plant cells. The plants overexpress the Arabidopsis thaliana CTR1 gene, which results in insensitivity to ethylene. This benefits plants in relation to stress such as intection of thylene. This benefits plants in relation to stress such as intection and the to pathogens (i.e. bacteria, viruses and fungi), wound healing and soil penetration. Since ethylene affects agriculturally important plant processes, e.g. fruit ripening, flower and leaf senescence and leaf abscission, the ability to control citylene sensitivity could
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STASTA STATILITI I TITTITI II TITTITI TITTITI TITTITI
IGATAGGCGTAGTGATCCAGCCTTCAAGGAACTICACAATAGAGTCCACGACATAICTTG
                                                                                                                                                1658 FORGATOCOTAPATITGGACOTFATGGATGGATGGATGAAAGTGGTGGATGGATG
                                                                                                                     GATGGACCCATATGTATGGTCALLATGCACCAATCTGCAAGAGGATGGGCGTATACCATC
                                                                                                                                                                                                                                     ATT FGAA FOTGAAAAAAAGAGTTGATTCCAGGATC GGTTCATCAATTGAAGTAGTTTGAT
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10 - AUG | 1992;
12 JAN | 1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELL HELLEL HELLE HELLE EN PROPERCIAN STANDARD FOR STANDA
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                                                         Sequence 629° BPS 181° As 1104 CS 129° SECRET SET CS CY CY Match

1 Docal Similarity 69.4%; Prod No. 4 ce SECRET Ches 211; Conservative co. Mismatches 211; Conservative
improve the quality and longevity of crops.
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stress telerance; crop improvement:
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                                                                                                                                                                                                                                                                                                         593 GGTAAATGGATGCATGTCATATTTGGAGAAAGTGCCAGATGGTTTTTATGTAATTCATG
                                                                                                                1778 TGATAGGCGTAGTGATCCAGGCTTCAAGGAACTTCACAATAGAGTCCACGACGAATATATA
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                                                                                                                                                     INSTIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Seeds of A. thaliana ecotype Columbia were subjected to ethylmethane sulfonate mutagenesis and screened for mutants that constitutively displayed the triple response by plating on agar absence of added ethylene in the dark. Sequence analysis of iso
                                                    6312
                         1297 G. 2090 T. 0 other,
                                                                                                                                                                                                        813 ATTTGAATCTCTGAAAAAAGAGTTGATTCCAGCATCGGTTCATCAATTGAAGAAAA
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1 Similarity 69.4%; Pred. No. 4.2e-31;
211; Consermative 0; Mismatches 93;
dominant ethylene insensitive phenotype
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                                                                                                                                                                                                                                                                                                 DB 16; Length 5412;
mutant ctrl-3 genomic DNA (given in AAQ98819) indicated a C to point mutation resulting in a stop codon at position 2701 2703 the wild type genomic sequence (AAQ98817). Transgenic plants expressing recessive ctrl mutations resemble ethylene-treated wild type plants.
                                                                                                               3, 2091 1: 0 other:
                                                                                                                                             Query Match
Best Local Similarity 69.4%; Pred. No. 4.2e-31;
Matches 211; Conservative 0; Mismatches 93; Indels
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diepoxybalanc mutagenesis and servened for mutants that constitutively displayed the triple response by plating on agar in the constitutively displayed the triple response by plating on agar in the dark. Sequence analysis of isolated of mutant etrl-1 genomic DNA (given in AAQ98820) indicated a T to A point of mutation at a position corresp, to position 4800 of the wild-type of anomic acquire (AAQ98817). Dataged plants expension resemble ethylene treated wild-type plants.

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Sequence 6412 BP; 1818 A; 1107 C; 1296 G; 2091 T; 0 other;
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Query Match Best Local Similarity 69.4%; Pred. No. 4.2e-31; Matches 211, Conservative 0; Mismatches 93; Indels 0; daps 1717 1777 754 GATGGACCCATATGTATGGTCALIATGCACCAATCTCCAAGAGGATGGCGTATACCATC 812 872 356 0000 666 ~ = = 8171 <u>. ĉ</u> ŝ ŝ ŝ ŝ <u>-</u> ŝ ĵ

Search completed: october 22, 2002, 09:59:59 Job time: 403 sees

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Scarch time 2449 Seconds (without alignments) 18109 838 Million cell updates/sec 2002, 08-46-10 October 22, Kun on:

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IDENTITY_NUC Gapop 10.0 , Gapext 1.0 Scoring table:

13736207 seqs, 6748477542 residues Searched:

27472414 Total number of hits satistying obesen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

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Database :

qb_qss:*
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SUMMARIES

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683 bp mRNA lines 8 MHAM Medicago *rusca*ula,22 amps ners! cDNA clone pMHAM-41A21 5: end, mRNA sequ. 1 GI:13601027	Redicad: fruncatula, Clurus of the first first; Medicage truncatula, Glorus versiforme mixed ESI (ibrany Eukaryota, mixed EST libraries, 1 (bases 1 to 683) Harrison, M.J., Liu, J., Town, C.D., Van Aken, S., Utterback, L., Phandand Fraser, C.M.	s from rands bere ablished tact: Ha at Biolo Samuel Samuel 580-22 11: mjha 10: EST n ormation	1683 Joiqueism-"Medicade frameatula qenotype Al7" Jibrary" Zenlfivar-"Medicade truncatula qenotype Al7" Zelone-"pMHAM 41A21" Zelone-lib="MHAM" Zelone-lip="MHAM" Zelone-lip-"Endts colonized with Glomus versitorme. The library was made from a mixture of RNA from each of these stades." Zelone-library was made from a mixture of RNA from each of these stades."
RESULT 1 BG585963 LOCUS DEFINITION ACCESSION VERSION KEYWORDS	SOURCE ORGANISM REFERENCE AUTHORS	JOURNAL. COMMENT FEATURES	source

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EST 15-JUN 2000
Zhote "Vector: pBluescript SK+; Site_1: EcoRI; Site_2: Xhol; cDNA was prepared from polyA+ enriched RNA from roots harvested at 10, 17, 22, 31 and 48 days post inoculation with Glomus versitorme. The chNA was directionally ligated into the Unizap XR vector from Stratagene and packaged using Gigapack III Gold packaging extracts. Plasmids containing cDNA inserts were excised from the recombinant lambda-Zap phage using Ex assist helper phage and propagated in XLOLR cells."
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NFO56008ST 57, mRNA sequence.
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Town, C.D., Bowman, C.L., Craves, M.B., Hansen, T.S., Holt, T.E. and
Fraser, C.M.
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Unpublished (1999)
Contact: VandenBosch K
48 S CAPGOGGTAAFITGAATGCAGGAGAGGTGGCGTGGGGTTGGGTTGAAGGAT
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Texas A&M University name:T260803e
TIGR sequence name:MTGAU58TK
More information is available at.
http://hrgsin.ang.du/Sedi/sip.
kttp://hrgsin.ang.du/Sedi/sip.
Location/Cullifiers
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Texas A&M University
College Station, TX 77843-3258, USA
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S. Shorman, T. (bases 1 to 581)

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A., Bolla, B., Marra, M., Hillier, L., Kneaba, T., Martin, J., Reck, C., A., Bolla, B., Marra, M., Hillier, L., Kneaba, T., Martin, J., Bowers, Y., Terson, B., Swaller, T., Gibbons, M., Tape, B., Allen, M., Behnik, Y., Terson, B., Swaller, T., Gibbons, M., Cape, B., Allen, R., Marterston, R., Shin, I., Jackson, Y., Cardenas, M., Medann, R., Waterston, R., and Wilson, R., Public Soybean EST Project

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This clone is available through: ResGen, Invitroden Cerp.
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South Memorial Parkway Huntsvi le, AL 35801 For further information call: (800)-533-4363 or contact via email: ccuercsqen.com
Insert Length: 1098 - Std Error: 0.00
High quality sequence stop: 41.
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Lycopersicon.

Alcala, J., Vrebalov, J., White, R., Vision, T., Karamycheva, S.A., Tsa, J., Bougri, O., Kirkness, E., Utterback, T., Van Aken, S., Ronning, J., Fraser, C.M., Martin, G.B., Tanksley, S.D. and Giovannoni. J. Generation of ESIs from tomato fruit tissue, breaker stage (2002)
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Clemson University
100 Jordan Hall, Clemson, SC 29634, USA
Email: http://www.arm.ne.clemson.eii/crders/thml
This clone is available through the Clemson University Genomics
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/cultivar_"TA496"
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/tissue_type:"Pericarp"
/dev_stage_"breaker"
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CLEG51G17 5' end, mRNA sequence.
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/clone="cLEG51G17"
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Location/Qualifiers
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/lab_host ="SOLR"
/note="Vector: p
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Lycopersicon esculentum

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Hashesphyta;

Spermatophyta; Magnoliophyta; eudicotyledons; core endicats;

Asteridae; euasterids I; Solanales; Solanaceae; Solanam;

Lycopersicon.

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Alcala,J., Vrebalov,J., White,R., Matern.A.L., Visico.J., Belt, E.E., Lianq.F., Upton,J., Craven,M.B., Bowman,C.L., Akn.S., Kermina, C.M., Eraser,C.M., Martin,G.B., Janksley,S.D. and Glovannon, E.Generation of ESTs from tomato callus tissue
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EST533551 tomato callus, TAMU Lycopersicon esculentum conA clone
clEC71P14-5' end, mRNA sequence.
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/cultivar="TA496"
/db_xref "taxon.4081"
/clone="cLEC71P14"
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/tissue_type="callus"
/dev_stage="25-40 days old"
/lab_host="XL1-blue MRF"
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Clemson University
100 Jordan Hall, Clemson, SC 29634, USA
Email: 1911 ''www Tengther Tengther 10, 1
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AI730487
AI730487.1 GI:5049267
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Xhot; Supplier: Giovarnoni Laboratory; cLEC Getyledons
of seedlings 7 10 days post germination were excised, cut
at both ends and placed on MC mcdium with no selection.
Mixed callus was harvested at 25 and 40 days and included
undifferentiated mass s Temate Callus FST (ibrary)"
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/cultivat "Acala Maxxa"
/db_viot "tarn+46.45"
/viote_lib="Six day Cotton tiber"
/tissue_type="immature tiber"
/dev_stade "Six days post anthes.s"
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| Similarity 28.7%; Prof. No. 9.76 47;
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Upton, NY 11973, USA
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Fax: 916 344 3407
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Soq. primer: TA Primer.
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                                                                                                                                                                                                              Email: seqretagenoscope, cns.fr. Web : www.genoscope.cns.fr
Contact : Pascal Gamas and Etlenne-Pascal Journet, Laboratoir
Biologie Moleculaire des Relations Plantes-Microorganismes,
CNRS INRA, BP 27 3136 Castanct Tolosan Cedex, France (Email
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Ihis clone is available through: Resien. Envitt.gen 7.19. 2.3
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call. (eco) 533 4363 of contact via email. cerriesaence m
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Contact: CUGI
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available at litter,7962,siertamoreda/medicage/.
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Email: mjharrison@hoble.org
Stler came. MHAM 23a E12, Sate. 774,00; Updates to the Latabase of
Expressed Sequence Tags (dbEST) on 04/27/00; More intermation is
anatherat littp (Telipsic time of Thedicage).
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Medicade transatela/Glossa versiferne mixed FSI library.

Edita: [ltt, mixed FST libraries.]

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Harrison, M.J., Liu, J., Penq, H., Conzales, M., Fillis, L., Towner, D., Boxman, C.L., Craven, M.B., Hansen, T.S., Holt, I.E. and Fraser, P.M.

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Unpublished (2000)
Contact: Harrison M.J.
Plant Biology Division
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Attistic type "roots colonized with Glomus versitorme"

Adv stage "Roots have sted at 10, 17, 22, 31 and 38 days post-inoculation with Momus versiforme. The library was made from a mixture of RNA from each of these stages."

Alab_host "E. coli strain XLOLR"

/aote "Vector, psidescript 5K, site_1. Ecokl; Site_2:
Xhol: cDNA was prepared from polyA-enriched RNA from roots harvested at 10, 17, 22, 31 and 38 days post-inoculation with Glomus versiforme. The cDNA was directionally ligated into the Unizap XR vector from stratagene and packaged using Gigapack III Gold packaging extraous, Plasmid: contained in XLOLR cells: "helper phage and propagated in XLOLR cells:"
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Fangel, P., Haberlach, J. Cha, Y., St. et al. 195.

Fangel, P., Haberlach, J. Cha, Y., St. et al. 195.

Fangel, P., Haberlach, J. Cha, J., St. et al. 195.

Fangel, P., Haberlach, J. Cha, J., St. et al. 195.

Fangel, P., Haberlach, J. Cha, J., St. et al. 195.

Fangel, P., Haberlach, J. George Characo et al. 195.

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taken from greenhouse plants (4-6wks old TA496). Tissue
was immediately frozen in liquid nitrogen."
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Spermatophytā; Magnoliophytā; eudicotyledons; core eudicots;
Asteridae; euasterids I; Sclanales; Sclanaceae; Solanum;
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                                                   Clemson University Genomics Institute
Clemson University
100 Jordan Hall, Clemson, SC 29634, USA
Email: http://www.general.com/parchamed.
Location/Qualifiers
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/dev_stage="developing shoots from 4-6wks
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Query Match [500]

Matches

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IDENTITY_NUC Gapop 10.0 , Gapext 1.0 Scoring table:

383533 seqs, 122816752 residues Searched:

767066 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

COMB. seq. * Issued_Patents_NA:*

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SUMMARIES

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ALTGNMENTS

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Length 2890;
                       Sequence 1, Application US/07928464
Patent No. 5367065
GENERAL INFORMATION:
APPLICANT: Ecker, Joseph R.
APPLICANT: Kieber, Joseph J.
TITLE OF INVENTION: Constitutive Triple Response Gene and TITLE OF INVENTION: Mutations
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
APPERSET Woodcock, Washbarn, Forth Marthewier and Apprenser No. 5367065ris
STREET: One Liberty Place - 46th Floor
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REFERENCE/DOCKET NUMBER: UPN-1
TELEPHONE: 215-568-3100
INFORMATION FOR SEQ 1D NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2890 base pairs
TYPE: NUCLEIC ACID
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NAME: Miller, Suzanne E.
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्र क	1108	GGGGTFFGTAGACATCGFGTCTFTTAFFCAAAGTGCFAGCFGAFFCAAFFGAFFTTAGGG 1 	
<u> </u>	1168	COLTGAAT GOODAAGGALG LAAATAL DOOACTAGAAGGITGOTTOATOTTGCOTTGT CL.	227
> 4	1228	AGGETGGGGGTTGATAGGGAAFAFCTGATGGATGTGATFGGGAGGCGAGGTTGCTTATGC 12	156
7.5	1288	CAACCIGATTCTTTGCTCAATGGTCCATCTATCTTCAATTTCTTCAGCATTGCGATTT 1	

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ογ	1528	AAAACCATACLUCITACTICOLOACAACA AGAAATICTICACTALAAATAAAAATAAAAATAAAAAAAAAA	ž.
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ςò	1588	GCCCAACTGAATACTCAAGATGGAAAGTCTGAGCAATTLAGATCALTGTTGTTTTTTA	•
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ςò	164B	TATAGIGLACAGICGACCCCTTTTGLAGAAAAIGTAGIGTTTTTAAATTAAATTAAATTA	
101)	1598		<u>*</u>
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101	1615	AGTGCTAATATUS TEGASAA ABSABSUS SEE AAAS AAAS AATATT	**
ογ	1768	AACAATITAGATITGITGATGGTAGTGATTGATTAGAAAAAAAA	:
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Ċλ	1888	OGTICITITGGGACTCIAIAICGGGGACGGCALGG TO PARTOLE E PARAMAKET TILLE T	7
1313	1795	GGLLCCTTTGGCACTGTCCACCGTC TCACLCCCAABCCTTCAAACTTTSTTTTGAAAAT	- ; - ;
X5	1948	CPPAGAGAACAGACTICCATCTCAACTEAATTITTTAATTITTTAATTITTTAATTITTTAATTITTTAATTITTTAATTITTTAATTITTTAATTITTTAATTITAATTITAATTITTAATTITTAATTITTAATTITTAATTITTAATTITTAATTITTAATTITTAATTITTAATTITTAATTITTAATTITTAATTITAATTITAATTITTAATTITTAATTITTAATTITTAATTITTAATTITTAATTITTAATTAATTITTAATTAATTITTAATTITTAATTITTAATTITTAATAATTAATAATTAATAATTAATAATAATAATAATAATAATAATAATAATAATAAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATAAATAAATAAATAAATAAA	•
115	1855	PTPATGGAGTAAGACTTCCATGTGAGGGTGTAATGAGGGGAAAAAAAA	•
ς	2008	ATGAAATCTTTACGACATCCTAATATTGTACT TELLATORIGESTIE IACTAACTTA SA	-
101)	1916	ATGAAAGGGGT LOGGGAGGGAAAATTGT CT CTGAGGGGGT CT CACTAAAAAAAAAA	
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a वि	1975	AATTIGECAATAGTGACAGAATATTTGTCAAGAGTAGTTTATACAGATTTTGCATAAA	7
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ŝ	2245	COGAATCESTIAGITGACAAGAAGIAIAAAAAAATAAAAAAAAAAAAAA	00
ac.	2155	CCAAACTTATTGGTTGACAAAAAAAAAAAAAAAAAAAAA	•
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ō	2465	CCAGAAGIACIACIQAIGAACCAICAAAIGAAAATICAAATICTAATTITTATTA	**
qc	2275	CCAGAAGTOCT GCGAGATGAGCCGTCT AATGAAAATTAAAATTTT TTACA BTTTCT BBTEC	;;

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                                                      GPCGCAGCTGTTGGATTTAAGGGCAAAAAGGCTTGAAAATGCGAGGTGATGTAAA
                                                                  2395 GTAGCTGCGGTTGCTTTCAAGTGTAAACCCCTCCAGATGCCGCGTAATCTGAA
                                                                                                                                                                                                                                                                                                                                     AFPLICANT: Ecker, Joseph R.
APPLICANT: Kieber, Joseph J.
TITLE OF INVENTION: Constitutive Triple Response Gene and
TITLE OF INVENTION: Mutations
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
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ches 664;
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Mismatches
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Pred. No. 6.
                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE: Norris
STREET: One Liberty Place - 46th Floor
CITY: Philadelphia
STATE: PA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PCF//1893/07347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           UPN-1086
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Patentin Release #1.0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPALIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                              Application PC/TUS9307347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           32,279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
INFORMATION FOR SEQ ID NO: 1:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
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ilarity 64.3%;
Conservative
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REGISTRATION NUMBER: 32
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
LENGTH: 2890 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION DATA:
APPLICATION NUMBER: PC
FILING DATE: 19930805
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                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
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LOCATION:
                                                                                                                                                                                                                                                                                                 PCT US93-07347-1
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۵	1417		476
ン ン ユ	1408	TTGTATTTGATGAAGCTTCTTCAGGTAATGTTGTATCT	467
. >	1468	GGGAAGGA FGCTGCATTCTCCGTCTATCAAAGGCCATTAAATAGGAAGGA	527
۵	1520		575
>-	15.28	AAAACATAGTTACTGGTGACAAGGACAAATTCTCAGTTATTAAATAAA	187
â	1526	GACGCALTGGCAGAAAATGGTG++++++++++	263
≻	8851	GCCCAACTGAATACTCAAGATGGAAAGTCTGAG JAATTTAGATCATGTGTFGCTTCTCCA 1	647
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5 44	16.4 B	TATAGTGTACAGTCGACCCCTTTGTAGAAAT STAGTCCCTTTAAGCCATATCTCACAG	707
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£	16.15	AGTGCTAATATGCCTCCACAGAAATGATGCGTGCGTGCAAATCAAATGGAAGCAGCACCT	674
>	1768	AACAAFITACCAFTGTTCATGGTAGTCAGTTGATTAGAAAACCAAATGAGCTTTCCCTT 1	827
ಎ	1675	AFGAAFGOOGGACCAATCAGFCAGCTTOCAAACAGGGCAAATAGGGAACTTGGACTT	734
>-	n n n	ATTTGGTTATTCCALGGACAGAT TTGATTTGAGGGAGAAAATTGGAGGA 1	887
بتد	1745	AIGGACAICCCGIGIGIGICAI TITAATATAAAAAAAAAAATTGGAGCA 1	744
<u></u> ہ۔	1888	CTGTATATGGTGAGGGATGGCTCTGAGGTTGCTGAAGATG 1	947
а	56.7	ROACTGTCCACCGTGAGTGGCATGCTCGGATGTTGCTGAAAATT 1	854
<u>ب</u> ہز	1853	COTGAACGTGTTAALGAGTTTCTGAGAGGGTTGCTATC L.L.i. (L.L.i.L.L.L.L.L.L.L.L.L.L.L.L.L.L.L.L.L	2007
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â	1315	TOTTCATGGGTGCGGTCACTCAACCTCCA	1974
;~	#907	AACTEGECATTGTCACCGAALAFCFAFGACACGTACCTFCFAFAGGCTTTTCCALA	U. 1
<u>۔</u>	1975	AATTTGTCAATAGTGACAGAATATTTGTCAAGAGGTAGTTTATACAGACTTTTGC	0.34
شہ جن	212H 2045	FGAAACACGCGAATAAATAFGGCTITIGALGTGGCA 2 	184
>	2185	ACTACCTCCACAGAGGTGATCCTCCAATTGTTCATCGTGATTTAAAATCA 2	2.4
â	2095		
> -	2 14 S	TAGTTGACAAGAAGTATACAGTCAAGGTFTGTGATTTTGGTCT	3 04
ے	2155	TGGTTGACAAAAATATACAGTCAAGGTTTGTGATTTTGGTGTCTGTGGGA 2	214
54 J.D.	2305	FCATCCAAATCTGCAGCTGGAACACCTGAATGGATGGCA 2 	364
ント	2.465	TACGCGATGAAGCATCAAATGAAAAGTCAGATGTTTACAGGTTTGGAGTG 2	424
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Sequence 1, Application HS/08003411H

Patent No. 5444166

CENERAL INPERMATION:
APPLICANT: Ecker, Joseph R.
APPLICANT: Kieber, Joseph J.
TITLE OF INVENTION: Constitutive Hipple Bespende in TITLE OF INVENTION: and Mutations
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock Washburn Kartz Mackick, T. H.:
ADDRESSEE: No. 5444166ris
SIREET: one Liberty Place 4645 Front CITY: Philadeiphia
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Best Local Similarity 64.3%; Pred, No. 6.7c 225
Matches 1582; Conservative O. Mismatches 1943
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MEDIUM INTE: Floppy disk
COMPUTER: TBM PT COMPATIBLE
COMPUTER: TBM PT COMPATIBLE
COMPUTER: TBM PT COMPATIBLE
COMPUTER: WORDPORTER 5.1
CURRENT APPLICATION DATA:
APPLICATION DATA:
APPLICATION BOOD
PRIOR APPLICATION DATA:
ALLING DATE: August 10, 1992
ATTORNEY/AGINT INFORMATION:
REFERENCE/POCKET NUMBER: 44,29*
RECEBERNCE/POCKET NUMBER: 44,29*
RECEBERNCE/POCKET NUMBER: 10PN 11*8
TELEPHONE: 215-568-4439
INFORMATION FOR SEO ID NO: 1:
SEQUENCE CHARACTERISTICS:
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LOCALLON: 118...
003-3118-1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STATE: PA
COUNTRY: U.,
ZIP: 19103
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> 2	*	CAGGCGTATCGGATAGGGAACCTGFATTCATGGATTGGTTTACAGAGACATTCC 366	99
<u>.</u>	4 ;	CAAGGGAATGGGAATAATATGTATGGTTGGTTGGTTGGTT	
<u>م</u> م	403	AGIGGAAGCAGCIACGAIGAIAGCICICICICITAGIGATIACTACCCACCGACGCIATCA 428 	26 61
ζ	427	AACCCIGCAGCAAATGAGATCAATGCATTGGAATATATCCTCGATGATGTTCCGAGTG 486	9.6
DF)	462	- TGCGGCGGCTAACGAAFCFGTFGGATTTCCTCAAGAFGATGGGTTTAGGCTT 519	61
<i>></i>	487	ATGAAAGCTGTGGGAAGTGGAGGTTCG513	13
<u>a</u>	520	GGATTTGGTGGTGGAGGAAATTTGAGGATACAAATOGGGGGGGGAGTGGGAGGGG 579	5.0
> 2 €	514	TCTGGAAAGAGCTGGGCCCTAGCAGAAGAGAGAGCTTTCAGTTCCAGCAGCC 567	67
2 3	20 7 20 89 21 99	TOLIONIO GGGAAMAGGIGGGGGGAGGAGGGAGGGAGAGTTATGAGTTGGAGGTTTGGA 633 TTGGTTGGTTAGGCTTTGAGALGNNACTTGGGGGATGAGGAAGTTTAAAAAAAAGGAAGA	49 70
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λα - q	588	4 -	47
<u> </u>	748	CATGGGATGGACCCATATGTATGGTCATTATGCACCAATGTGGGAAGGGGATGGGGGTATATA 807	51
40	8.20		62
7.7	808	CCATCATTIGAATCICIGAAAACAGIIGAIIGCAGCAICGGIIGAAITGAAGIAGII 867	57
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À.	868	TIGATAGATCGGCATAGTGATGCTAGCTTAAAAGAAGTGCAAAAGAGGGTGCATAATATT 927 	3.7
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ð		TGTCGAATTGCCAAAGGAIGTAAATATTGTAATAGAGAGGATGCCGGTTGGTGCCTTGTGTG 129	
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<u> </u>		AUDITIUMNETHAATAMAARTA CIAATTAATTIAATTAAAAAAAGGGABCICACTTATAACAAAAAAAAAAAAAAAAAAAAAAAAAA	356
<u>~</u>	22.7	KAACCIGATICITISCISAATSGIGGATCAATGGIGGATTAA 134	147

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qq	1915 ATGAAACGC	TTGGGGAGGGTAAGATTGTTTGTTTGATGGGTG7GGTCATTCAAAYATAA
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SEE: No. 5602422ris
: One Liberty Place 46th Floor
Philadelphia
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Sequence 1, Application US/USZE1452

Datent No. 5602322

GENERAL (NEURATION:
APPLICANT: Ecker, Joseph R.
APPLICANT: Ecker, Joseph D.
111LE OF INVENTION. Constitution Tri
111LE OF INVENTION. and Mutations
NUMBER OF SEQUENCES: 13

CORRESPONDENCE ADDRESS:
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AFFORNEY/AGENT INFORMATION:
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TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
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INFORMALLON FOR SEQ ID NO: 1:
SEQUENCE CHARACLERISTICS:
LENGIH: 4033 base pairs
TYPE: nucleic acid
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qq	1297	AGGTTTGGGCTTGATAGGGAGTACCTGGTTGATTTAGTAGGAAAGGGAGGTCAGTTATGG	LÚ
Q.Y.	1288	CAACCTGATTCTTTGCTCAATGGTCCATCATCTCAATTTCTTCACCATTGCGATTT 	₹ ,
	70°1	CCAAGACTAAAAAACTAATTAAATAAAAAAATTAATAAAAAATTAAAAAA	
<u> </u>	1417	CCACGACCAAACCIAIIGAAICIACCAIIGAIIICAGGTCACTGGCCAAACAGATTTC 	1497 1476
> 0	1408	TEGGATAGCCAATCACTTAATCTTGTATTTGATGAAGCTTCTTCAGGTAATGTTGTATCT	V.O
3	1477	TCCGATAGCCAGTCTTTAATCTTGTTTTCGATCCTGCATCAG	$\overline{}$
0 Q	1520	GGGAAGGATGCTCCCGICTATCAAAGGCCATTAAATAGGAAGGATGTAGATGGA 	1527 1575
C	1528	AAAACCATAGTGGTTGGTGACAAGGACAGAAATTCTCAGTTATTAAAAAAAA	20
QC.	1576	GACGCAFFGGCAGAAATGGFG	(7)
ζ	1588	GCCCAACTGAATACTCAAGATGGAAAGTCTGAGCAATTTAGATCATGTGTTGCTCTCCA	1647
90	1598		1597
\circ	1648	TATAGTGTACAGTCGACCCCTTTTGTAGAAAATGTAGTCCCTTTAAGCCATATCTCACAC	
131,	1598	GTGGGTC'ITTGCCACCC	1614
5 3	1708	ATTGGT FOTGAAGATTCGGAGCATCTCTTAGCATTGTCTCTCATCCAAGGATGGAT	.0.
		AGIGCIMALALGO, I COACAGAACA FGATGGGGGCGTCAAATTGAAGCAGCACCT	-
à a	1768 1575	AACAATTTACCATTTGTTGATGGTAGTTAGATTAGAAAACAAATGAGCTTGCCTT	C3 (2)
ò	1828	GGCTTAGAAGATTTGGTTATTCCATGGACAGATCTTGATTTGAGGGAGAAAATTGGAGCA	1887
Q	1745	GATGGTGATATGGACATCCCGTGGTGTGTTTAATATAAAAGAAAAGATTGCAGCA	~
cy Db	1888	GGTTCTTTTGGGACTGTATATCGTGGTGAGTGGCTCTGATGTTGGTGGAAGATCT 	1947
<u>></u>	1.948	CTCACAGAACAAGACTTCCAAACGTGTTAATGAGTTTCAAGAGAGAG	
7 4	1855	CPCATGGAGCAAGACTTGCATGCTGAGCGTTAATGAGTTCTTAAGAGGTTGCTATA	- ,
á á	2008	ATGAAATCTTTAGGACATCCTAATATTGTACTGTTTATGGGTGGG	2067 1974
<u>۸</u> د	2068	AACTTGTCCATTGTCACCGAATAT.TTATCGAGAGGTAGCTTGTATAGGGTTTTTGCATAAC	
Q C	1975		034
72	2128	TCAGGTGTCAAAGACATAGATGAAACACGTCGAATAAATATGGCTTTTGATGTGGCA	184
op.	2035	AGTGGAGCAAGGGAGCAATTAGATGAGAGGTGGGTGAGTTATGATGATGTGTGT	2094
0.y 0.to	2185	AAGGGAATGAACTACCTCCACAGAGGTGATCCTCCAATTGTTCATCGTGATTTAAAATCA	2244
ζ×	2245	CCGAATCTGTTAGTTGACAAGAAGTATAGAGTTTGTGATTTTGGGTGTGTGT	
QC	2155	CCAAACTTATTGGTTGACAAAAATATACAGTCAAAGTTTGTGATTTTGGTCTCTCGCGA	~ ::
9.Y 0.D	2305	TTAAAGGCACGCACATTTCTTTCATCCAAATCTGCAGCTGGAACACACAAGAATGAAT	364
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                                                                                                                                                                                                                                             SEE: Woodcock, Washburn, Furtz, Mackiewier and
SEE: No. 5367065ris
: One Liberty Place - 46th Floor
Fhiladelphia
                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Ecker, Joseph R.
APPLICANT: Ecker, Joseph J.
APPLICANT: Kieber, Joseph J.
TITLE OF INVENTION: Constitutive Triple Kesponse Gene Title OF INVENTION: Mutations
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock, Washburn, Furtz, Mackiewier and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 155.2: EB 1;
Pred. No. 2.5e-32;
C, Mismatches '5,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: Fatentin Release #1.0, Ve
CURRENT APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION B00
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Miller, Suzanne E.
REGISTRATION NUMBER: 32,279
REFERENCE/DOCKET NUMBER: UPN-1086
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
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MEDIUM TYPE: Floppy disk
COMPUTER: ISM FC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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Patent No. 5367065
GENERAL INFORMATION:
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nilarity 69.4%;
Conservative (
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LENGTH: 5873 base pairs
TYPE: NUCLEIC ACID
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111 | 1111 | 111 | 1 | 1 | 1 | 1 | 1111 | 11111 | 11111 | 1 | 1 | 1111
1176 GGTTAATGGCTGCPTATGATATGATAAGTTCATAAGGTTTTTTATATGATGATGA
1:76 OGITAATOOCTOTTAICGTACTAGATAAAGTICTIGAIGAGGTTTTATATGATGATGG 1235
                                              812
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                                                253 GATGGACCCATATGTATGGTCATTATGCACCAATCTGCAAGAGGATGGGCGTATACCATC
                                                                                                                 ATT FGAA F TECTGAAAACAGT FGA F F CAAGCAT COAT CAATTGAAGTAGTTTTGAT
                                                                 1236 FOLGGAFGGGFAFFFGGAGGTTAFGGAGGGGGGGGGGGGTTG
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TELLE OF INVENTION: Constitutive Triple Response Gene and FILLE OF INVENTION. Mutations
NUMBER OF SEQUENCES: 6
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il Similarity 69.4%; fred. No. 2.50-42;
211; Conservative by Mismatches 93;
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9. Mismatches
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APPLICATION NUMBER POT, TOTAL OF 117
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COmpatible
OPERATING SYSTEM: PC-DOSZMS DES
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FELECOMMUNICATION INFORMATION.
FELEPHONE: 215 568-3100
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GENERAL INFORMATION:
APPLICANT: Ecker, Joseph R
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nucleic acid
DNESS: single
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                                                                             AALIGAARGALTAAGAGTGTIGATECTOSTETLOALESTET SAGESTAL
                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Ecker, Joseph R.
APPLICANT: Kieber, Joseph J.
TITLE OF INVENTION: Constitution Intitle Memory and TITLE OF INVENTION: Mutations
MUMMARK OF SEQUENCES: 6
CORRESPENDENCE ADDRESS:
ADDRESSEE: Moodcock, Washburn, Kuntil Markowith an ADDRESSEE: No. 5462065ris
STREET: one Liberty Place 46th Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: Floppy disk
COMPUTER: IBM PC COMPATIBLE

SPERATING STRIEM: PC DES/MS DES

SOFTWARE: Patentin Release #1.00, Verston #1.00

APPLICATION DAIN:
APPLICATION NUMBER: PS/07/928.40.
754 GAL BOACH CATALGIA (COLCALIA DE APPANIE) PENAÑERE
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Patent No. 546/065
GENERAL INFORMATION:
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NAME: Millor, Suzabho E.
REGISTRALLON NUMBER: 42,270
REFERENCE/FOUNTRY NUMBER: UPN
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION: 41
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: DNA (denomic)
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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LOCATION:
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LOCATION:
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Pred. No. 2.5e+32;
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APPLICANT: Kieber, Joseph J.
TITLE OF INVENTION: CONStitutive Tripic
TITLE OF INVENTION: Mutations
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
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No. 5367065ris
Liberty Place 46th Floor
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REFERENCE/DOCKET NUMBER: UPN
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
INFORMATION FOR SEQ ID NO: 5.
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MEDIUM TYPE: Floppy disk
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                                                                                                                                        Conservative
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APPLICANT: Ecker, Joseph R.
APPLICANT: Kleber, Joseph J.
TITLE OF INVENTION: Constitutive Triple Response Gene and TITLE OF INVENTION: Mutations
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
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Pred. No. 2.5e 32;
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    Woodcock, Washburn, Kurtz.
    No. 5367065ris
    ne Liberty Place - 46th Floor

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APPLICATION NUMBER 18777 789 164
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Patent No. 5367065
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REGISTRALION NUMBER: 32,279
REFERENCE/DOCKET NUMBER: UPN-
IELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-4100
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
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SEQUENCE CHARACTERISTICS:
LENGTH: 5890 base pair
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% Norris
ene Liberty Place 46th Floor
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COMPUTER: HM PC compatible
OPDRATING SYSTEM: PC DesyMs nos
SOFTWARE: PatentIn Release #l.u. Version #l.:
AFELL APPLICATION DATA:
AFELL APPLICATION DATA:
AFELL APPLICATION
FILLING DATE: 19930805
A. SALL ALLING DATE: 19930805
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GENERAL INFORMATION:
APPLICANT: Ecker, Joseph J.
APPLICANT: Kieber, Joseph J.
11TLE OF INVENTION: Constitutions
HUMHER OF INVENTION: Mutations
HUMHER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
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GENERAL INFORMATION:
APPLICANT: Ecker, Joseph R.
APPLICANT: Kieber, Joseph J.
TITLE OF INVENTION: Constitutive Triple Response Jene and TITLE OF INVENTION: Mutations
NUMBER OF SEQUENCES: 6
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ADDRESSEE: Norris
STREET: One Liberty Place - 46th Floor
CITY: Philadelphia
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21P. 19103
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: ISM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
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APPLICANT: Kicher, Joseph J.
TITLE OF INVENTION: Constitutive Triple Response Gene and
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Patentin Release #1.0, Version #1.25
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Pred. Mo. 2.5c 42;
); Mismatches 93;
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MEDIUM TYPE: Floppy disk
COMPUTER: 18M PC COMpatible
OPERATING SYSTEM PS'-DOSZMS DOS
SOFTWARE: Patentin Release #1 0, Version #1
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SOFTWARE: Patentin Release #1.0, V. CURRENI APPLICATION DATA:
APPLICATION NUMPER PT[7712]
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OENERAL INFORMATION:
APPLICANT: Ecker, Joseph P
APPLICANT: Kicker
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d Similarity 69.4%;
211: Conservative
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LENGIH; 5890 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                       NAME: Miller, Suzanne
REGISTRATION NUMBER:
                                          19930805
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SIATE: PA
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Patent No. 5444166

GENERAL INFORMATION:
APPLICANT: Forker, Joseph J.
TITLE OF INVENTION: Constitutions
TITLE OF INVENTION: and Mutations
NUMBER OF SEQUENCES: 14
CORRESPONDENCES: 14
ADDRESSEE, Woodcock Washbern Kintz Markick. TADDRESSEE, Woodcock Washbern Kintz Markick. TADDRESSEE: One Liberty Place 46th Floor
CITY: Philadelphia
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GERNT APDI (CALION DATA:
APPI (CATION NUMBER) - HSZORZOGJ, 411B
                                                                          SECT NOTE
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         CLASSIFICATION:
ATTENTY TWEERARITEM:
NAME: Miller Suzanne E.
REGISTRATION NUMBER: (2,27)
REFERENCE/SOCKET NUMBER: (2,27)
REDECOMMUNICATION INFORMATION:
TELEPHONE: 215 568 5100
INFORMATION FOR TELEF
SEGGENCE CHARATERISTICS:
LENGTH: 5890 base pairs
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                                                                                                                                                                                                                     ; MOLECULE TYPE; DNA (qenomic)
PCT-US93-07347-6
                                                                                                                                                                                                                                                                    4.7%;
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IBM PC compati
                                                                                                                                                                                                                                                                                 Similarity 69.4
1) Conservative
19930B0F
                                                                                                                                                                        nucleic acid
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                                                                                                                                                                                                         linear
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Best Local :
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Pred. No. 2.6e-32;
0; Mismatches 93;
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No. 5602322ris
a Liberty Place - 46th Floor
                                                                                 UPN-1108
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COMPUTER: IBM PC COMpatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: TRYOR/2241,432
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TITLE OF INVENTION: Constitutive
LITLE OF INVENTION: and Mutations
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
             MMBER: 07/928,464
August 10, 1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Application US/08261432
                                                                    14,293
                                                                             REFERENCE/DOCKET NUMBER: UPI
FELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
                                                                                                                                                                                                                                                                                    ·
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                                                                                                                                                                                                                  DNA (genomic)
PRIOR APPLICATION DAFA:
APPLICATION NUMBER: 07/92
FILING DATE: August 10.
ATTORNEY/AGENT INFORMATION:
NAME: LOTI Y. Beardell
                                                                                                                                                                                                                                                         4.78;
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                                                                                                                                                         6295 base pairs
nucleic acid
                                                                                                                                               CHARACTERISTICS:
                                                       NAME: Lori Y. Beardell REGISTRATION NUMBER: 3
                                                                                                                  TELLEFAX: 215-568-3439
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                    Conservative
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US-08-261-432-4
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AFFLICANT: Ecker, Joseph K.

APPLICANT: Kieber, Joseph J.

TITLE OF INVENTION: Constitutive friple Response General True of Invention: and Mutations
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Woodeoek Washburn Kurtz Mackiewiez and
No. 5444166ris
S Liberty Place - 46th Floor
                                                                                                                                                                                                                                                                                             4.7%; Score 155.2; DR 1; 69.4%; Pred. No. 2.6e-52; ive 0, Mismatches 50;
                                                                                                                 UPN-1864
FILING DATE: June 17, 1994
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/003, 311
FILING DATE: January 12, 1993
ATTORNEY/AGENT INFORMATION:
NAME: Lori Y. Beardell
PEGISTRATION NUMBER: 34,293
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ZIP: 19103
COMPUTER READABLE FORM:
MEDICM TYPE. FLOPPy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
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. 5444166
                                                                                                            REFERENCE/DOCKET NUMBER: UP
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
                                                                                                                                                                                                                                                      DNA (genomic)
                                                                                                                                                                                             6295 base pairs
nucleic acid
DNESS: single
                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
                                                                                                                                                     TELEFAX: 215-568-3439 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                          Constitutive
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CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                          Linear
                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
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                                                                                                                                                                                                                          STRANDEDNESS:
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; MOLECULE TYPE:
US-08-261-432-4
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il Similarity 69.4%; Prod. No. 2.50+32;
211; Conservative 0: Mismatches 93;
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Job time : 125 seas
                     FILING DATE: January 12, 1993
CLASSIFICATION: 800
PRIOR APPLICATION: B400
PRIOR APPLICATION: DATA:
AFPLICATION DATA:
AFPLICATION DATA:
AFPLICATION DATA:
AFPLICATION NUMBER: 07/928,464
FILING DAIE: Auqust 10, 1992
AITORNEY/AGENT INFORMATION:
NAME: Lori Y. Beardell
REGISTRATION NUMBER: 34,293
REFERENCE/PETRET NUMBER: UPN-1108
TELEPH-NE: 215-568-3100
TELEPH-NE: 215-568 3439
INFORMATION FOR SEQ 1D NO: 3:
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/003, 311B
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: MolECULE TYPE: DNA (qenomic)
US-08-003-3118-3
                                                                                                                                                                                                                                6 412 base pairs
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SIKANDEPNESS: single
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(c) 1993 - 2002 Compugen Ltd
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protein search, using sw model OM protein

conds Search time 60 Sec (without alignments) 1573.545 Million cel october 22, 2002, 09:59:55 Run on:

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C-588-404-50-50

4435 Litle: Perfect score:

.... KPMTKQAPPQQSRTD11.SVM 850 1 MEMPGRESDYSLLSQ PPFF sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

111073796 residues 747574 scqs, Searched:

747574 hits satistying chosen parameters: Total number of

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database

A_Genesaq_032802;*

1. (STRS) proportion property genesally entity AA1 aar taal;

2. (STRS) proportion property genesally entity AA1 aar taal;

4. (STRS) proportion property genesally entity AA1 aar taal;

5. (STRS) proportion property genesally entity AA1 aar taal;

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7. (STRS) proportion for the sequence of genesally entity AA1 aar taal;

8. (STRS) proportion for the sequence of genesally entity AA1 aar taal;

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15. (STRS) proportion for the sequence of genesally entity AA1 aar taal;

16. (STRS) proportion for the sequence of genesally entity AA1 aar taal;

17. (STRS) proportion for the sequence of genesally entity AA1 aar taal;

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Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Description	Arabidopsis CTR1 p	Constitutive trip1	Arabidopsis thalia	Arabidopsis that	Arabidopsis thalia	Talleto ICIE. Las	Rice EDE1. Organ	'	Arabidopsis thalia	Arabidopsis thalia	Arabidopsis thalia
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g e c	Ouery Match	61.8	61.8	61.8	51.7	C1 83 C1	28.0	1.01	25.4	13.2	13.2	6.51
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SS OS	Arabidopsis thaliana ecotype Columbia.
XX	US5444166-A.
XX Cld	22-AUG-1995.
XX PF	10-AUG-1992; 92US-0928464.
XX PR	12-JAN-1993; 93US-0003311. 10 AUG 1992; 92US 0928464.
X	(UYPE-) UNIV PENNSYLVANIA.
ν	Echer JR, Kieber JJ;
DR DR	WF1, 1995 302162,30. N-PSDB; AAQ98816.
Y T E E	New constitutive triple response genes and mu Arabidopsis thaliana, used to produce transquants to produce transquants.
	niployed properties

plant; othylene:

New constitutive triple response genes and mutants - isolated translabidopsis thaliana, used to produce transgenic plants with improved properties

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                                                                                                                                     The CIRL dene was mapped to an interval between 2 RELPs in chromosome 5 of A. thaliana and a chromosome walk in this area was initiated using a YAC library. 2 Clones were isolated and used to probe a cDNA library derived from polyA RNA from 3-day-old dark-qrown, ethylene treated A. Thaliana seedlings. The cDNA for the CIRL gene in AAQ98816. Expression of the CIRL gene in transqueric plants results in a deminant of hylene-insensitive
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The present sequence represents the constitutive trup is reset to (CTR) protein. The sequence that encodes this protein is used to transform plant cells. The plants everompross the Anatidopsis that transform plant cells. The plants everompross the Anatidopsis that CTR gene, which results in insensitivity to ethylene. This betactive plants in relation to stress such as interfer due to pathwhereas (construits in viruses and tungi), wound healing and seen penetralises, ethylene and transfer provided provided the provided ethylene sensitivity could improve the quality ability to central ethylene sensitivity could improve the quality ability of crops.
                                                                                                                                                                                                                                                                                                 CIR; Arabidopsis thaliana; mutant; auricultara;; ert;; eee.
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12 - JAN 1993;
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The present sequence is given in a specification relating to the EDRI gene located on Arabidopsis thaliana chromosome letworn markets gene located on Arabidopsis thaliana chromosome letworn markets. A EAALI and NCCL. The disruption of the EDRI gene is associated with enhanced resistance of a plant to plant pathogens or other of sease-causing agents. A mutated transgene comprising the EDRI gene of the EDRI gene for that genome to reduce expression of EDRI. Alternatively, a transgene that expresses part or all of an antisense strand of the EDRI gene may be introduced to produce fortile Arabidopsis (balland plants. Transgenic plants exhibiting the desirable phenotypes of plants. Transgenic plants exhibiting the desirable phenotypes of ack of EDRI protein, EDRI man, or enhanced resistance to plant containing a complementary transgene in order to produce plants with enhanced or combined phenotypes. EDRI nucleic acids may be used as probes to detect the presence and/or expression of EDRI genes and to identify related genes to may be used as probes to detect the presence and/or expression of EDRI genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New gene EDR1 of Arabidopsis thaliana, the disruption of which endances disease resistance in plants, is useful for producing transachic plants and mutants having increased resistance to plant pathogens
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Ored, No. 3.5e-245;
Thus 144: Indels
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The present sequence is always in a specification relating to the EDRI gene located on Arabidopsis thalland chromosome I between markets gene located on Arabidopsis thalland chromosome is associated with calked and NCCL. The district of the EDRI gene comprising the EDRI gene disease-causing agents. A mutated transgene comprising the EDRI gene contained at residur 636. (10) of kinstructeding domain may be introduced. A transgene expression of EDRI. Alternatively, a transgene that expresses part of all of an antisense strand of the EDRI core may be introduced. A transgene which expresses a sense strand of the EDRI gene may be introduced. A transgene fertile Arabidopsis thaliand plants. Transgenic plants exhibiting the desirable phenotypes of lack of EDRI protein, EDRI mPNA, or enhanced resistance to plant parts containing one transgene may also be not icultural applications. Plants containing one transgene may also be broduce plants with enhanced or combined phenotypes. EDRI nucleic acids may be used as probes to detect the presence and/or expression of EDRI quies and to identify related genes from other plant species, such the gene from Oryza sativa that encodes the present sequence.
                                                                                                                                                                                                                                                                                    New gene EDRI of Arabidopsis thaliana, the disruption of which enhances disease resistance in plants, is useful for producing transgenic plants and mutants having increased resistance to plant pathogens
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disease-causing agents. A mutated transgene comprising the EDR1 genemutated at residue 696 of the of kinase geneding domain may be introduced into the plant genome to reduce expression of EDR1. Alternatively, a transgene that expresses part or all of an antisense strand of the EDR1 cenemay be introduced. A transgene which expresses a sense strand of the EDR1 genemay be introduced. A transgene which expresses a sense strand of the EDR1 genemay be introduced. A transgene which expresses a sense strand of the EDR1 genemay be introduced. A transgene which expresses a sense strand of the EDR1 genemate plants exhibiting the desirable phenotypes of lack of FDR1 professor FDR1 mPNA, or enhanced resistance to plant agricultural or pathogens can be used for plant breeding, or directly in agricultural or horticultural applications. Plants containing a complementary transgene in order to produce plants with enhanced or combined phenotypes. EDR1 muchely acids may be used as probes to detect the presence and/or expression of EDR1 genes and to identify related genes from other plant species, such we have encoding the present sequence from barley.

Sequence 970 AA;

82. 515 561 APTLSANP - AANETNAL PY II DEDERVMKAVOSOOGSOOKSWAQQTPPSPQ1 QQPI VLPLSS - 152 243; Caps -----EEEEYOMO--LALALSA - Y I'' I NNDRVSDNI,SSYENTMTAGSSASEPGTLGKASTI,AGAPSKQKKNI,QLIPDSHEIDESRNI. : ECVSPS SASGAPGAG--DPDGPQTPKAKIMSLGPGDPVTNSD1GGGGGGADGGSPPVFDYNDLDYNE KVPDGFYLTHGMDPYVWSLCTNLQEDGRIPSFESLKTVDSSIGS-STEVVLTDRHSDASL QGHMFA -SISAEAISHRFWVNGCMSYLE KITDNAL. RTSHQT ---KPN KECLGS DAAFSV NYENEL KFT ONRVHNISSSOVITKEVADHTART VONET GESYSEGEDDLYSAWKECSDDL 180 QEMKEVAPCCIJACPDITVLVPPIAFVVADEMARDVIDA-NEMITEWLSKSIEQ DVMAAPGTLIPADVPNSKGTPFNFSQTL@ONOVVESASNIEDDPVALQSEHEHY YSRFDGELSKNAQGFFPPPPPPBHKFNGGYPHFMLHPDPFKSPLDEFMDEPEQNI PNVEELNERMYAAFAF --NVVPLSHISHIGSED---Indels DETORBOYOT CORPSET NORSSISTISSIN REPRETERSTITISPRINKO-DB 22; 35, 273, I -- PFVHGSQLIR----KSEQFRSCVASPYSVQSTPFVE---Ouery Match Bost Local Similarity 32.1%, Fred. No. 5.2c Matches 305, Sussercutive 100, Mismulthes 154 DXTCADDPNFMDPIPDE---AALRSL-----APSRSPPVASTEAAGDEF1LQ------RKOYRVAPOSVPERNATDNASSSÇLALSTAKIDIN YOU OUNDERNOOMET VOTSPERPENCY LINKER SOSEMIAPPEASSGNVVS----GK--SEHLLALSHPRMDHVNNL----KAIDSBADIBOBS----- AQLNTQDG - · -5.50 486 et U et ć ŝ Š Ê <u>.</u> $\stackrel{>}{\circ}$ Š <u>2</u> Š <u>:</u> 9 Š <u>;</u> $\stackrel{>}{>}$ ŝ

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PR 21-APP-1999; 9018-0130449.
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PR 22-APP-1999; 9018-014041.
PR 22-APP-1999; 9018-014449.
PR 40-ANY-1999; 9018-0144218.
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	profein 110022.13 [imported] Arabidopsis thaliana Caspecies: Anabidopsis thalland (mouse ear cress)	Cibate: 02 Mar 2001 #Sequence_revision 82 Mar 2001 #text_chande 41 Mar-2001	K. Theologis, A., Ecker, J.E., Palm, C.J., Federspiel, M.A., Kaul, S., White, O., Alonso, Chita C.W., Chung, M.E., Cont, L., Conway, A.E., Conway, A.E., Creasy, T.E., Sewar, E.,		C.A.s Liv J.H.s Liv Y.s Lin, X.s Liu, S.X.s Liu, Z.A.s Laros, J.S.s Maiti, R.s Marziali,	Kery M., Wu, D.: 14, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W. Affitter Sequence and analysis of Physmosope 1 of the plant Arabidopsis. A Distances number Age 11. Metric (1916)	A: Kerelence number: A85141; Molb:210:5719 A: Accession: F86356	A:Status: proliminary A:Moloculo typo: DNA	April 1980 - 198	A: Gene: T10022.13 A: Map position: 1	C BOLLOW Materials C BOLL Schools 1007 5. BOLLOW	, 58.2) tanqun 16-47; \$ 288; Indels	CY 36 GGNVIKGKTDRVFTDMDGSGDHRI NTQAYELGNLYSWIGLØRH SSGSSYDDSSLSS 90 		OY "1 DYYAPTLSNPAANEINALEYILDDDFRVMKAVOSOOSSGKSWAQQTERSPOLOOPI, 146 	147 VIPLSSOXTCAMPNEMPREPARAALBSTSTSAFAISHREWVNGCM 1	121 ALELSATT TREDETT TO THE SAMOLESARESAFENTERALMAYRYNYNCL	OY 193 SYLEKVPPGFYLTHEMPPVWSLCTNLQEDGRIPSFESLKTVDSSLESSIEVVLIDRH-250 131: 1111	THE REPORT OF THE PROPERTY OF	FOSALL MINGHALDINARENTASTETIVASELMEGLAVLVADYRODINID FINITILAANW	OV ANA BOSENIO KENTOSAVI PLOSI SVOLOPORALI EKVLADSI INLICELARGOMYOTEPINAS. 261 - 11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	-BEYELFELIOR ADDL	Db 338 SIKINGSOKI FELEMPNYNFRIN IVOLMON OILIPADAAGLOMITEDEN VERASPRIV 196	Oy 403 408	DE 197 DSSHVASSSSTVETTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	OY 400 KPIESTIPERSLA KCYFLLSS OSLNLVFDUA 138	Db 452 PVQHLSSKPTHSPTHAPSPSWTP7VST AGEL 4FVFLVS_YMII AAELAL LALELIHVI. 516		DD 517 LESGVARPAN FSEVYSPSMPA POPE PROFESSING FOR SECURAL SECTION SECTI	IGSEDSEHLLAI	TOS ILLEGIS - BECAMBATINGENES SEGMENTATIONS SANDATION (49) 40

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ker, M.: Wh. D.: Yu. G.: Fraser, C.M.: Venter, C.P.: Lavis. A; Title: Sequence and analysis of chromosome 1 of the plant A; Reference number: A86141; MUID:21016719
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A; Reference number: A86141; MUID:21016719
A; Residue: preliminary
A; Molecule type: DNA
A; Residues: 1-738 <STO>
A; Cross references. GB.AE005173, NID:q6553006, FHIR.AAF1412.
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Harity 37.8%; Pred. No. 6.4e 33;
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C;Species: Arabidopsis thaliana (mouse-ear cross)
C;Date: 23-Apr-1999 #Sequence_revision 24 Apr 1999 #text_change 24-C;Accession: F05137
R;Bewan, M.; Peters, S.A.; van Staveren, M.; Dirkse, W.; Stickema, submitted to the Protein Sequence Database, July 1998
A;Reterence number: 215399
A;Reterence number: 215399
A;Reterence type: DNA
A;Residues 1 736 *BEV.
A;Cross-leterences: EMBL:AL041018
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R;Theologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul Chin, C.W.; Chung, M.K.; Cons, L.; Conway, A.B.; Conway, A.B.;
ansen, N.F.; Hudhes, B.; Huizar, L.
Nature 408, 816-820, 2000
A;Authors: Hunter, J.L.; Jenkins, L.; Johnson-Hopson, C.; Ehan, C.A.; Li, J.H.; Li, Y.; Lin, X.; Liu, S.X.; Liu, Z.A.; Lures, T.
Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.
Rizzo, M.; Robney, T.; Rowley, D.; Sakano, H.
A;Authors: Salzberg, S.L.; Schwartz, J.E.; Ehins, P., Scuthwick.
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C; Accession: D84555
R; Lin, X.: Kaul, S.: Ronnsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fnjii, C.Y.; M.: Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.: VanAken, S.E.; Umayam, L.; Tallon, L. M.: Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.: VanAken, S.E.; Umayam, L.; Tallon, L. M.: Koo, H.; Moffat, R.S.; Cronin, L.A.; Salzberg, S.L.; Fraser, C.M.; Venter, J. Nature 402, 761 768, 1999
A; Ritle: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
A; Reference number: A84420; MUID:20083487
A; Accession: number: A84420; MUID:20083487
A; Accession: preliminary
A; Moleculo type: DNA
A; Residues: 1-546 <SIO
A; Cross-references: GB:AE002094; NID:46598802; PIDN:AAH80785.2; GSPDB:GN00139
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Scoring table:

Searched:

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Total number of hits satisfying chosen parameters:

105224 seqs, 38719550 residues

Minimum DB seq length; 0 Maximum DP seq length; 2000000000

Post-Frocessing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

SwissProt_40.* Database :

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Nuckolis G.H., Osterov N., Scenus W.E., Space 2, A.
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beyelopment 122:3295 3305(1996). tyrosine phosphate.
DEVELOPMENTAL STACK: EXTRESSED THW CORPUT FOVEL FOR NO FORENCE (ARKING THE MOUND STACK OF MORPHODENEST).
SIMILARITY: TO OTHER PROTEIN TYROSINE KINAGE, MOLD ALCO SEQUENCE OF 1248-1584 FROM N.A.
MEDLINE 90287147; PubMed 1972146;
Tan J.L., Spudich J.A.;
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01-001-1996 (Rel. 34, Last sequence update)
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Non receptor tyrosine kinase spore lysis A (P) FISHPHRE YOUR STENDALLABNOS SECONDR B PROM N.A. LIXID 44689; protein kinase LEUSANMER 1:1:1:1 --7 3 43 $\hat{\mathbb{S}}$ 7 ŝ i i <u>;</u> $\begin{array}{c} \mathbb{X} & \mathbb{X} \\ \mathbb{Y} & \mathbb{X} & \mathbb{X} & \mathbb{Y} & \mathbb{Y} & \mathbb{Y} & \mathbb{X} & \mathbb{X} & \mathbb{X} \\ \mathbb{Y} & \mathbb{X} & \mathbb{X} & \mathbb{Y} & \mathbb{Y} & \mathbb{Y} & \mathbb{Y} & \mathbb{X} & \mathbb{X} & \mathbb{X} \\ \end{array}$ X I I I I $\frac{1}{2}$ •

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This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bicinformatics and the EMMEL afstation of the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in to way modified and this statement is not removed. Usage by and for commercial entities to prices a liberary (See Note Content is all Commencial Content Send an email to licensesisher).
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MEDLINE 92375040; PubMed-1508179;
Stephens R.M., Sithanandam G., Copeland J.D., Kaplan G.F., Kapp P.E.
Stephens R.M., Sithanandam G., Copeland J.D., Kaplan G.F., Kapp P.E.
Morrison D.K.;
"95-Kiledalten B Kat scring/throughner kinase, identification of the protein and its major autophosphorylation site.":
protein and its major autophosphorylation site.":
Mol. Cell. Biol. 12:3733-3742(1992).
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HIPPOCAMPAL NEURON.
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SUBCELLULAE LECATION: Cytoplasmic.
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PROSTE; PSOO479; DAG_PE_BIND_DOM_2: 1.
PROSTE; PSSOO81; DAG_PE_BIND_DOM_2: 1.
PROSTE; PSSOO107; PROTEIN_KINASE_ATP: 1.
PROSTE; PSSOO107; PROTEIN_KINASE_ST: 1.
PROSTE; PSOO108; PROTEIN_KINASE_ST: 1.
PROSTE; PSOO108; PROTEIN_KINASE_ST: 1.
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AIP_Dinding; Phorbol-ester binding; Phosphorylation.
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InterPro: [PR000719: Buk_pkinase.]
InterPro: [PR004716; RBD.
InterPro: [PR004040: STY_pkinase.]
UnterPro: [PR002290: Ser_thr_pkinase.]
Plans: PF00130: DAG_PE-bind: [].
Plans: PF00059: pkinase: [].
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NCEL_LaxID 9606;
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borow D.S., Devereux L., Tu G.F., Price G., Nichell, F.
Sutherland G.R., Simpson R.J.,
"Complete nucleotide sequence, expression, and charmed restricted to a sequence, expression, and charmed restricted to a sequence of human mixed lineage kinase [1.7].
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Katch M., Hirai M., Sudimura T., Terada M.;
"Cloning and characterization of MST, a nover (putative)
serine/threonine kinase with SH3 domain.":
Oncogene 10:1447-1451(1995).
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002779; Q12761; Q1487);
01:FEB 1994 (Ref. 2M, Created)
30:MAY 2000 (Ref. 40; Last succession update)
16:OCT-2001 (Ref. 40; Last annotation update)
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                            PROTEIN KINASE.
ATP (BY SIMILARITY).
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LEUCINE ZIPPER (BY SIMILARITY).
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ARGZIYS-RICH (BASIC).
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MEDLINE 90287:47: PubMed 1972546;
fan J.L., Spudich J.A.;
"Developmentally regulated protein tyrosine kinase genes in Dictyostelium discoideum.";
Mol. Cell. Biol. 10:3578-3584(1990).
i CATALYRIC ACHIVITY: ATP + a protein tyrosine ADP + pro
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MW: 5:8F4AAA5F9R0ABA CRC64.
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Dictyostelium discoideum (Slime mold).
Enkaryota: Mycetozoa: Dictyosteliida: Dictyostelium.
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Mazine sarcoma viras 3611.
Viruscs; Retroid viruses; Retroviridae; Mammalian 17pe V retroviruses
NCBI_Tax1D=11812;
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KRAF_MSV36 SIANDARD: PRT; 324 AA.
P00532;
21-JUL 1986 (Rel. 01, Greated)
21-JUL-1986 (Rel. 01, Last sequence update)
01-MAR-2002 (Rel. 41, Last annotation update)
serine/threonine-protein kinase transforming protein raf (E)
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MEDLINE-84121298: PubMed 6320371;
Kan N.C., Flordellis C.S., Mark G.E., Duesberg P.H., Papus "A common on the reserve for all of type lateration and tender for a for the reserve for all type laterations and virus 3611.";
Science 223:813-816(1984).
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al Similarity 31,3%; Pred. No. 3,30 24;
129; Conservative 73; Mismatches 145;
EMBL; M34784; AAA44203.1;

PIR; B35670; B35670.

BSSP; P11362; 1EGE.

DictyDb; DD03013; pykB.

InterPro; 1FR004440; STY_pkinase.

InterPro; 1FR004440; STY_pkinase.

InterPro; 1FR004440; STY_pkinase.

Pram; PF00069; pkinase; 1.

SMART; SM00221; SIYRC; 1.

PROSITE; PS00107; PROTEIN_KINASE_ATP; 1.

PROSITE; PS00109; PROTEIN_KINASE_DOM; 1.

PROMAIN 108 481 PROTEIN KIN KIN NON_TER 1.

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                                                                                              This SWISS Porty is copyright. It is produced through a realiable right of the EMBL outstation the Ewropean Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license amendate (So beth []www.[si of Janesea] or send an email to licensedisb-sib.ch).
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                  Mark G.E., Rapp D.K.;
"Primary structure of v-rat: relatedness to the src family
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Mismatches [91] Indels
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ATP (BY SIMILARITY).
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PETATIF, PITTIE, FE TEIN_EINASE_FF, E.
PROSITE, PSOUDI, FROTEIN_KINASE_DOM, I.
FOLTELOTOTO OCTURY, Theories protein kinase,
ATP-binding.
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LIR; A00638; FVMVPE.

HSSP: P11362; LFGK.

InterPro: IPR004040; STY_pkinase.

InterPro: IPR002230; Ser_thr_pkinase.

Therefore interPro: IPR002230; Ser_thr_pkinase.
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          PubMed 6324342;
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Matches 116; Conservative (
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SMART: SMOO221: STYKE:
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Lanc E.D., Cooper J.A.;
"Nuclear magnetic resonance and molecular dynamics status.". 1. 1.
Interactions of the Ras-binding domain of Raf I with wild type and mutant Ras proteins.";
J. Mol. Bioi. 286:239-2342(1999).
J. Mol. Bioi. 286:239-2342(1999).
J. Hol. Bioi. PARSANE IN THE TRANSBOOTEON OF MILOGENIC SERVIS FROM LAR. 1811 CELL MEMBRANE IN THE TRANSBOOTEON OF HELPINGENIC SERVICE.
SIGNALING PARBWAY FROM RECUES TO THE NOTE OF PROJECT AND TAKE.
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FROSTBORYLATION (ASE) (BY STMILARITY).
                                                                                                                           Rattus norvegicus (Kat).
Enkaryota: Metarca: Chordata: Craniata: Verlehealu: Fulciosettus.
Mammalia: Eutheria: kodentia: Sciuroquathu: Muridae: Muracu: Falle:
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Ichikawa F., Tikiki E., Maqao M., Sudimura I.:
"Rat c'raf oncogene activation by a rearrangement that protoco
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SIMILARITY. CLASHNS I ZINT DEPENDENT PROTECT COURT AND LAST BINDING DOMAIN.
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Terada T., Ito Y., Shironzu M., Tateno M., Hashimata K.,
Fbisagaki T., Takio K., Shibata J., Yokoyama S., Smith E.
org 2001 (Ref. 40, Last annotation update)
Tproto oncoqene serine/threonine prefern kinase
NET) (CERAE).
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PIR; A25126; TVRIRE.

PIR; B26126; TVRIRE.

PIR; B26126; TVRIRE.

PIR; B26126; TVRIRE.

InterPro; IPR002219; DAG PE bind.

InterPro; IPR004219; Eak_Pkinase.

InterPro; IPR0043116; RBD.

InterPro; IPR004230; Set_thr_pkinase.

InterPro; IPR004230; Set_thr_pkinase.

InterPro; IPR004230; Set_thr_pkinase.

Pram; PF00196; pkinase; 1.

PRINTS: PR00008; DAG PE bind; 1.

PRAKT; SM00109; C1; 1.

SMAKT; SM00109; C1; 1.

PROSTIE: PS00479; DAG PE BINE POM 2: 1.

PROSTIE: PS00479; DAG PE BINE POM 2: 1.

PROSTIE: PS00107; FR0IEIN_KINASE ATP: 1.

PROSTIE: PS00108; PROTEIN_KINASE ST: 1.

PROSTIE: PS00108; PROTEIN_KINASE ST: 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                               Cell. Biol. 7:1226-1232(1987).
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648 AA;
                                                                                                                                                                                                                                                                                     SEQUENCE PROM N.A.
                                                                                                                                                                                                                             NCBL TaxID 10116;
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                                                                                                                                   56.4 LSLGLEDLVIPW ---TDLDLREKIGAGSFOTVYRGEWHGSDVAVKILTEQDFHPERVNE 618
                                                    50 < ASPYSVQSTPFVENVPLSHIGSEDSEHLIALSHFRMDHVNNLPFVHGSQLIPKPNF 562
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Blocken Blophys. Res. Commun. 193:1324-1331(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CATALYTIC ACTIVITY: AIF + a protein - ADP + a phosphoprotein. SUBCELLULAR LOCATION: Nuclear. ALONG FORM (SHOWN HERE) AND ALTERNATIVE PRODUCTS: 2 ISOFORMS; A LONG FORM (SHOWN HERE) AND SHORT FORM; ARE PRODUCED BY ALFERNATIVE SPLICING. FISSUE SPECIFICITY: EXPRESSED PREFERENTIALLY IN NEURAL TISSUE.
                     Gaps
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                                                                                                                                                                                                                                                                                                                                                                          Gallus qallus (Chicken).
Eukatyota, Metagga: Chordata: Craniata: Vertebrata; Euteleostomi:
Archosauria: Aves: Neognathae: Galliformes: Phasianidae: Phasiani
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                                                                                                                                                       MILZRAF SUBFAMILY.
SIMILARITY: CONTAINS 1 ZINC-DEFENDENT PHORBOL-ESTER AND DAG
                                                                                              T CWSQPRTPVPAQPPPAPGSGTQRKNKI
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                                                                                                                                                                                                                                           119:
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pred. No. 7.5c-23;
; Mismatches 119
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01-FEB-1994 (Rel. 28, Last sequence update)
16-0CT-2001 (Rel. 40, Last annotation update)
RMII. serinezthreoning protein kinase (FC 2.7
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MEDLINE 94312327; PubMed=8323553;
Calogeraki 1., Barnier J.V., Eychen
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                                                                                                          288 ASPSALSSSP--NNLSP----
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                          Conservative
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              Rest Lecal Similarity
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Coturnia columnix japonica (Japanose quall).
Eukaryota: Metazoa; Chordata: Craniata: Vertebrata: Esteleostomi:
Archosauria: Aves: Neoquāthae: Galliformes: Phasianidae: Phasianinae:
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R SMART; SMOOLCY; Cl; 1.

R SMART; SMOOLS; RBD; 1.

R SMART; SMOOLS; RTYKC; 1.

R PROSITE; PSOOLO7; PROTEIN_ENDA_2; 1.

R PROSITE; PSOOLO7; PROTEIN_ENDASE_ATP: 1.

R PROSITE: PSOOLO7; PROTEIN_ENDASE_ATP: 1.

R PROSIT
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01-FEB-1994 (Rel. 28, Last sequence update)
16-OCT-2601 (Rel. 40, Last annotation update)
RMIL serine/threonine-protein kinase (EC 2.7.1.47)
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ilarity 39.3%; Pred. No. 1.1e-22;
Conservative 59; Mismatches 97
PIR; JNO612; JNO612.
HSSP, P04049; 1FAR.
InterPro; 1PR002219; DAG_PE-bind.
InterPro; IPR000719; Euk_pkinase.
InterPro; IPR003116; RBD.
InterPro; IPR004040; STY_pkinase.
InterFro; IPR002290; Ser_thr_pkinase.
Pfam; PF00130; DAG_PE-bind; 1.
Pfam; PF02196; RBD; 1.
PFINTS; PR00008; DAGPEDOMAIN.
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SEQUENCE FROM N.A.
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P34908;
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Best Local
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488 DOWETPDGGITVGGRIGSGSFGTVYRAKWHG OVAVEMINVTAPTEGGIGAFENEVOVIR
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MEDLINE 92419540; PubMed-1620546; Eychene A., Barrier F., Calothy G.; "Quail retroreting c-Rmil(B-rat) proto oncodene connscience two proteins of 93.5 and 95 kDa resulting from alternative splicing." Ourogene 7:1315-1324(1992).

-! FUNCTION: MAY PLAY A ROLE IN TRANSDUCING SPECIFIC SIGNALS IN NEURAL CELLS.
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SMART: SMOOLOW; C1: 1.

SMART: SMOOL221; STYKC; 1.

SMART: SMOOL221; STYKC; 1.

SMART: SMOOL221; STYKC; 1.

PROSITE: PSSOOR1; DAG_PE_BIND_DOM_2; 1.

PROSITE: PSSOOR1; PROTEIN_KINASE_DOM; 1.

PROSITE: PSSOOR1; PROTEIN_KINASE_DOM; 1.

PROSITE: PSSOOR1; PROTEIN_KINASE_DOM; 1.

PROSITE: PSSOOR1; PROTEIN_KINASE_DOM; 1.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAFALYTIC ACTIVITY: ATP + a protein ADP + a phosphopic
SUBCELLOLAR LACATION: Nuclear.
ALIERNATIVE PRODUCTS: I ISOPARMS; A LONG FORM (CHOWN HIL
SHOKE FORM: ARE PRODUCED BY ALIERNATIVE SPLICING.
FISSUE SPECIFICITY: EXPRESSED PREFERENTIALLY IN NEURAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PIM: PHOSPHORYLATED.
SIMILARITY: BELONGS TO THE SER/T<sup>UL</sup> PAMILY OF PROTEIN FI
MIL/RAF SUBFAMILY.
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This SWISE bled entry is repyright. It is produced the oil a celline of a between the Swiss Institute of Bioinformatics and the EMMS surperson the facility institute. There are no restricted no near Broinformatics Institutions as lend as its varient is an empty of the statement is not removed. Usare ty not for remove entities requires a license date-ement (See http://www.rdc.sil.ed/anc.nere) or send an email to license isb sibach).
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Proc. Natl. Acad. Sci. U.S.A. Heille? 517(7+6);

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PIR: A40951; IVMSBE.
HSSP: P135b2: iFGK.
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Liab. Filis. Filis. Jihreonine-protein kinase: ATP-binding; Chromosomal translocation.
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                                                                                           568 EDLVIPWIDLDLREKIGAGSFGIVYRGEWHGSDVAVKILTEQDFHFERVNEFLREVAIMK 627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            [1]
SEQUENCE FROM N.A.
MEDLINE-89160254; PubMed 2537952;
Eychene A., Marx M., Pezelee P., Calothy G.;
Eychene A., Marx M., Pezelee P., Calothy G.;
"Complete nucleotide sequence of IC10, a retrovirus containing the
Rmil oncogene transduced in chicken neuroretina cells infected with
avian retrovirus RAV-1.";
avian retrovirus RAV-1.";
"T.1250-1250(1989).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Marx M., Eychene A., Laudier D., Bechade C., Crisanti P., Dozelee P., Pessac B., Calothy G.; A novel oncodene related to c-mil is transduced in chicken neuroretina cells induced to proliterate by infection with an avian lymphomatosis virus."; FMBO J. 7:3569-3373(1988).
-! CATALYTIC ACTIVITY: ATP + a protein + ADP + a phosphoprotein.
-! AMSCELLANEOUS: THIS PROTEIN IS SYNTHESIZED AS A GAG-R-MIL
                                                 Gaps
                                                                                                                                                                               :+ 11 :::11:111111:1:11111:1:1
10 DDWEIPDGGITVGGRIGSGSFGTVYKGKWHG-DVAVKMENVTAPTPOOLOAFKNEVGVLR
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                                                                                                                                                                                                                                                                                NYTHEREPPIVHEDINSTRULVDYRYTVRVODPOTSPLIAPTELSS--KSAAGTPEWMAP
                                                                                                                                                                                                                                                                                                                                                                                             14;
      DB 1; Length 328;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RMIL_AVIII STANDARD; PRT; 367 AA. PIO533; Q85614; PL0533; Q85612; Q85613; Q85614; OI-JUL-1989 (Rel. II, Created) OI-JUL-1989 (Rel. II, Last sequence update) OI-JUL-1989 (Rel. II, Last sequence update) OI-JUL-1989 (Rel. II, Last annotation update) Sorine/threonine-protein kinase transforming protein Kmil
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                                              Indels
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                                          47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         245 SNCPKAMKRIMAECLKKKRDERPLFPQILASIRLLARSLP
                            pred. No. 4e-23;
; Mismatches
        Score 450;
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EMBL; X13438; CAA31790.1; ALT_SEQ
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60
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                                                    Conservative
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Viruses, Retroid virus
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Query Match
Best Local Similarity
Matches 110; Conser
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                                                                                                                                                                                                                                                                                                     568 EDLVIPWIDLDLREKIGAGSFGTVYRGFWHGSDVAVKILIFODFHPERVNEFIREVAIMK EL
InterPro; IPR004040; STY_pkinase.
InterPro; IPR004040; STY_pkinase.
InterPro; IPR002290; Ser_thr_pkinase.
Pfam; PF00069; pkinase; 1.
SMART; SM00221; STYRC; 1.
PROSITE; PS00107; PROTEIN_KINASE_AIP; 1.
PROSITE; PS00108; PROTEIN_KINASE_ST; 1.
PROSITE; PS0011; PROTEIN_KINASE_DOM; 1.
ATP-binding.
ATP-binding.
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MEDLINE-91251215; PubMed 1645786;
Felder M.P., Eychene A., Barnier J.V., Calegoraki i., Caletta A.
                                                                                                                                                                                                                                           Match
Local Similarity 59.3%; Fred, No. 4.7e.2%;
les 110; Corservative 59; Mismatches 97; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-AUG-1992 (Rel. 23, Created)
01-AUG-1992 (Rel. 23, Last sequence update)
01-MAR-2002 (Rel. 41, Last annotation update)
Serine/threonine protein kinase transforming protein kmi.
(EC 2.7.1.37).
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Viruses, Retroid viruses, Retroviridae, Alpharetrovirus
NCBL_TaxID=11950;
                                                                                                                                                                                                      r SIMILAKITY.
E137AFCDECB9398A CRC54:
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                                                                                                                                                                        ATP (BY SIMILARITY).
ATP (BY SIMILARITY).
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SIMILAPITY: RFLONGS
MIL/RAF SUBFAMILY.
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01 NoV 1986 (Rel. 03, Last sequence update)
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HSSP: P:1362: 1PGK.
InterPro: 1PR000719; Euk pkinase.
InterPro: 1PR004040: STY.pkinase.
InterPro: 1PR004040: STY.pkinase.
InterPro: 1PR004290: Ser_thi_pkinase.
Plam: PF00069; pkinase; 1.
SMAPI: SM00221: STYRC: 1.
PR0SITE: PS00107; PR0TEIN_KINASE_ATP: 1.
PR0SITE: PS00107; PR0TEIN_KINASE_ST: 1.
PR0SITE: PS00108: PR0TEIN_KINASE_ST: 1.
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This SWISS-PROT entry is copyright. It is produced the arb a value roll is between the Swiss Institute of Biointermalists. In the European Biointermatics Institute. There are no restrictions to all use by non-profit institutions as long as its content. In a constitution modified and this statement is not removed. Usage by and the representations a literal area removed. Observe the sib-ch/are oner a or send an email to license isb-sib-ch).
King A.J., Sun H., Diaz H., Barnard J., M.a. w. 2017 103.
Marshall M.S.;
"The protein kinase Baki positively requiator but Lagranity through
phosphorylation of setime **P.";
Nature 396;180-183(1998).
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MERLINE 95.84022: PubMed 7700500.

Energon F.D., Madimon V.F., Piferon F.B., Woodh J.S., School F.

Tsao K.L., Kieter S.E., Lin S.P., Fry D.C.,

"Solution structure of the Pas binding demain of the Carlidentification of its Ras interaction surface "Structure of 199").

Biochemistry 44:6911 6918(199").
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Wittinghofer A.:
"Kas/Rap effector specificity determined by charm nextead.
Nat. Struct. Biol. 3:723-729(1990)
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Nassar N., Horn G., Herrmann C., Scharer A., M.C.
Wittinghoter A.;
"The Z.Z A crystal structure of the bas benden
serime/threening kinase c Rafl in complex with b
analogue.":
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InterProj IPR002719; Euk pkinase,
InterProj IPR004116; KBD,
InterProj IPR004040; STY pkinase,
InterProj IPR002290; Ser thr pkinase,
Pram; PF00140; DAG PE bind; 1,
Pram; PF00069; pkinase; 1,
Pram; PF02196; RMD; 1,
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Marshall M.S.;
Nature 406:439 439(2000).
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Nature 475;54 560(1991);
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TISSUE Erythroblast:
MFD1-INE BR217299: PubMed 3285296;
Koenen M., Sippel A.E., Trachmann C., Bister K.;
Koenen M., Sippel A.E., Trachmann C., Bister K.;
MPrimary structure of the chicken c-mil protein:identification of domains shared with or absent from the retroviral v-mil protein."
Checogene 2:179-185(1988)
- : - CATALYTIC ACTIVITY: ATP + a protein = ADP + a phosphoprotein.
- : - CATALYTIC ACTIVITY: BELONGS for THE SERZTHE FAMILY OF PROTEIN KINASES.
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Archosauria, Aves, Neognathac, Calliformes, Phasianidae, Phasiani
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PROSTE; PS00479; DAG_PE_BIND_DOM_1: 1.

PROSTE; PS00107; PROTEIN_KINASE_ATP: 1.

PROSTE; PS00107; PROTEIN_KINASE_DOM: 1.

PROSTE; PS00108; PROTEIN_KINASE_ST: 1.

Iransterase; Serine/threonine protein kinase; Proto-oncodene; Zinc Iransterase; Serine/Threonine Proto-oncodene; Zinc Iransterase; Serine/Threonine Proto-oncodene; Zinc Iransterase; Phorbol Ester binding; Phorbol Es
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01-NoV-1988 (Rel. 09, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
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PHOSPHORYLATION (BY PAK2,)

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Mismarches
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α.:
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73051 MW:
PRINTS; PRO0008; DAGPEDOMAIN
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                SMART: SM00109; C1: 1.
SMART: SM00455; RED: 1.
SMART: SM00221; STVFC:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
Watches 125; Censer
                                                                                                                                                                                                                                                                                                                                                                                                                               648 AA;
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NCRL TaxID: 9031;
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P05625;
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MOD_RES
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This SWISS FROT entry is copyright. It is produced through a collab ration between the Swiss institute of Bioinformatics and the EMBL cutstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its confect is in no way use by non-profit institutions as long as its confect is in no way endified and this statement is not removed. Usage by and for communication entities requires a license agreement (see http://www.iok.sib.ch.).
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PRINTS; PRUGUÜB; DAGPEDOMAIN.

SMART; SMU0109; C1; 1.

SMART; SMU0221; STYKC; 1.

SMART; SMU0221; STYKC; 1.

PROSITE; PSU0479; DAG_PE_BIND_DOM_1; 1.

PROSITE; PSU0107; PROTEIN_KINASE_ATP: 1.

PROSITE; PSU0108; PROTEIN_KINASE_ATP: 1.

PROSITE; PSU0108; PROTEIN_KINASE_ST; 1.

TIALSTEFASE, SCRIBE/throonine-protein kinase; Proto outcodence: ATP-binding; Prorbol-ester binding.
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FROIEIN KINASE.
ATP (BY SIMILARITY).
AIF (BY SIMILARITY).
BY SIMILARITY.
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ZING DEPENDENT PHORMOTOESTER AND
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P09560; 091390;
01-MAR-1989 (kel. 10, Created)
01-MAR-1989 (Rel. 10, Last sequence update)
16-OCF-2001 (kel. 40, Last annotation update)
KAF protoroncoqeme serine/through protoric kinase (EC
                                                                                                                                                                                                                       InterPro; IPR002219; DAG_PE-bind.
InterPro; IPR002219; DAG_PE-bind.
InterPro; IPR003116; RBD.
InterPro; IPR003116; RBD.
InterPro; IPR004040; STY_pkinase.
InterPro; IPR002290; Ser_thr_pkinase.
Pfam; PF00130; DAG_PE-bind; 1.
Pfam; PF00069; pkinase; 1.
Pfam; PF02196; RBD; 1
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   SIMILARITY: CONTAINS 1
BINDING DOMAIN.
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EMBL outstation strictions on its it is in no way and for commercial
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Philippe M.:
"Xenopus creat proto-oncodene: cloning and expression during codenesis and early development.";
Biol. cell 72:39-45(1991).
-! FUNCTION: INVOLVED IN THE TRANSPUCTION OF MITOGENIC SIGNALS FROM THE CELL MEMBRANE TO THE NUCLEUS. PART OF THE RAS-DEPENDENT SIGNALING PATHWAY FROM RECEPTORS TO THE SER/THE FAMILY OF PROFEIN KINASES.
-!- SIMILARITY RELONGS TO THE SER/THE PHORBOL-ESTER AND DAG
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                Monopos lactifs (Attions cluwed trea).
Enkaryeta: Metazoa: Chordata: Craniata: Vertebrata: Enteleostomi:
Amphibla: Batrachia: Anura: Menchatrachia: Pipoidea: Pipidae:
Xenopodinae: Xenopus.
N'PF_ISAIL #75.
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PRINTS: PREGOGE RBD: 1.

SMART: SMOO455; KBD: 1.

PROSTE: PSOO479; DAG_PE_BIND_DOM_1; 1.

PROSTE: PSOO107; PROTEIN_KINASE_AIP:

PROSTE: PSOO107; PROTEIN_KINASE_ST: 1.

PROSTE: PSOO108; PROTEIN_KINASE_ST: 1.

Transferase; Serine/Threonine-protein kinase; Proto oncodence.
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MEDLINE 89057471; PubMed-3194203;
le duellee R., le duellee K., Paris J., Philippe M.;
le duellee R., le duellee K., Paris J., Philippe M.;
"Nucleotide sequence of Xenopus C-raf coding region.",
Nucleic Acids Res. 16:10357-10357(1988).
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183 PHORBOL-ESTER
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InterPro: IPR000719; Euk_pkinase.
InterPro: IPR003116; RBD.
InterPro: IPR004040; SIY_pkinase.
InterPro: IPR002290; Ser_thr_pkinase.
Ptam: PF00130; DAG PE-bind; 1.
Ptam; PF02196; RBD: 1.
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MEDLINE 92096753; PubMed 1721875;
le Guellec R., Couturier A., le G
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EMBL: S74063; AAB20707.1;
PIR: S01930; TVXLRE.
ESSE: P04049; 1FAR.
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Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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of-MAY-1999 (TrEMBLiel, 10, Created)
of-MAY-1999 (TrEMBLiel, 10, Last sequence update)
(1-DEC-2001 (TrEMBLiel, 19, Last unnotation update)
ETHYLENE-INDUCIBLE CTRI-LIKE PROTEIN KINASE.
Lycopersicon esculentum (Tomato).
Ethkaryota; Viridiplantae: Streptophyta; Embryophyta; Trachcophyta;
Formaterpota; Viridiplantae: Streptophyta; Embryophyta;
Trachcophyta;
Asteridae: euasterids I: Solanales: Solanaceae: Solanum.
COHRECTIOAYREDM LEYSWEDLECKHOSOBSYDDSSLSSDYYAFTLSNPAANETNALETI
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STRAIN CV. ALESA CRAIG:

Kannan F., Giovannoni J.J.,

Cabalite i (ac. 1909) to the EMPLICATION Kinase.";

Cabalite i (ac. 1909) to the EMPLICATION FAMILY OF PROTEIN KIN

EMBL: AFTIOSIB: AAD10056.1; -..

EMBL: AFTIOSIB: PUP_PRICASE.

InterPro; IPR002290; Ser_thr_pkinase.

InterPro; IPR004040; STY_pkinase.

InterPro; IPR001245; Tyr_pkinase.

InterPro; IPR001245; Tyr_pkinase.

Enam; PF00069; pkinase: 1.

PRINTS; PR00109; TYRKINASE.

SMART; SM00221; STYRC: 1.

PROSITE; PS00109; PROTEIN_KINASE_SOM: 1.

PROSITE; PS00109; PROTEIN_KINASE_ST: 1.

AFP-binding; Kinase, Serine/Threorine-protein kinase, Transi
SEQUENCE 829 AA: 91889 MW; 9E976BF7640CE11D CRG64;
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Harity 58.4%; Pred. No. 1.8e 172;
Conservative 103; Mismatches 191;
                                                                                                                                                                                                                                                                                                 KRPSFSTIMDMLRPHLKSPLPPPGHTD 824
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01-MAY-1999 (TrEMBLiel. 10, Created)
01-MAY-1999 (TrEMBLiel. 10, Last sequence update)
01-MAY-1999 (TrEMBLiel. 19, Last annotation update)
01-PEC-2001 (TrEMBLiel. 19, Last annotation update)
ETHYLENE-INDUCIBLE CTR1-LIKE PROTEIN KINASE.
Lycopersicon esculentum (Tomato).
Eukaryota, Viridiplantae, Streptophyta, Embryophyta, Trachecephyta;
Eukaryota, Viridiplantae, Streptophyta, Embryophyta, Frachecephyta;
Asteridae, euasterids I; Solanales; Solanaceae: Solanum.
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  serine/threonine-protein kinase;
89387 MW; 9102529F49549A61 CRC64;
                                                                          ore 2306; DB 10;
ed. No. 4.8e-164;
Mismatches 188;
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                                                                          Similarity 56.3%; Pred. No. 4
8; Conservative 101; Mismatch
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ATP-binding; Kindse;
SEQUENCE 806 AA; 8
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                                                                                                       Best Local
Matches 48
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MEDLINE 21065153; PubMod 11114160;
Frye C.A., Tang D., Innes R.W.;
"Negative rejulation of befored response in plants by MAPKK kinase.";
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01-MAR-2001 (TrFMBLrel 16, Created)
01-MAR-2001 (TrEMBLrel 16, Last sequence update)
01-DEC-2001 (TrEMBLrel 19, Last annotation update)
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InterPro: IPR004040; STY_pkinase.
InterPro: IPR004040; STY_pkinase.
InterPro: IPR00109; Pkinase; 1.
PRINTS: PR00109; IYRK: 1.
SMART: SM00221; STYR: 1.
SMART: SM00220; S_TR: 1.
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ATP-binding: Transferase.
SEQUENCE 933 AA; 103588 MW; 650E2FF0
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Michine C. Alonso J., Albati H. Aranjo P., Bowman C.J., Brooks S.Y.,

Michine M.K., Conn. L., Cohway A.B., Cohway A.B., Trensy 1. His Property Conn. L., Cohway A.B., Cohway A.B., Trensy 1. His Property Conn. L., Cohway A.B., Cohway A.B., Trensy 1. His Property Conn. L., Cohway A.B., Cohway A.B., Cohway A.B., Cohway A.B., Trensy 1. His Property Conn. L., Cohway A.B., Cohway C.B., Cohway A.B., Cohway A.B., Cohway C.B., Cohway C.B., Cohway C.B., Cohway C.B., Cohway C.B., Cohway C.B., Cohway A.B., Cohway C.B., Cohway C.B.,
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651 DHIRNIGAQGIGINIKLINDNPDQQANISPQARQAYITATI YOTIYDDAFTI
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Arabidopsis thaliana (Mouse car cress).
Fokaryota; Viridiplantae; Streptophyta; Endugeles; or seconspermatophyta; Magnoliophyta; endicotyledous: cree caregids II; Brassicales; Brassicaceae; Arabidopsicales; CRRI_IAXID 4702;
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of JUN 2001 (TERMELLE), 17, Last sequence at
of DPC+2001 (TERMELLE), 19, Last amortalist
HYPOTHELICAL 112.2 KDA PROTEIN.
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PRINTS; PROD309; TYPKINASE.
SMAKL; SMOUZZO; S TKC; 1.
SMAEL; SMUUZJO; TYFKC; 1.
FRASILE; PSUUJO?; PROTEIN_KINASE ALC:
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                                                                                                                                     139 EEENQIQ--LALELSA----REDP----EATQIEAIKQFSLGSCAPENSPAELIAY
                                                                                                                                                                               REWVNCOMSYLEKVPECFYLIHGMDPYVWSLOTNLQEDGRIPSFESLKTVDSSIGSSIEV
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                                                                                        236;
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                                                            Length
PROSTIE, PS50011, PROTEIN_KINASE_DOM; 1.
ATP-binding: Hypothetical protein; Transferase.
Signific 1930 AA, 11220 NW, 98071251810F1838 CRC64;
                                                                                                                     137 EESPOLOOPLVLPISSPXTCADDDNFMPPIPDFA----ALPSLS1S----
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                                                        27.6%, Score 1223, DB 10;
34.9%; Pred. No. 1.1e 82;
ive 109, Mismatches 242,
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Best Local Similarity 34.5.
Tros 314, Consertative
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Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta:
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Kosidae;
eurosids II; Brassicales; Brassicaceae; Arabidopsis.
NCBL_TaxID: 3702;
                                                                                                                                                                                                                                                                                                              SPÓUENCE FROM N.A.
Khan S., Brooks S., Buehler E., Chao Q., Johnson-Hopson J., Kim C.,
Shinn P., Altati H., Bei Q., Chin C., Chiou J., Thoi E., Conn L.,
Corway A., Genzales A., Hansen N., Hownq B., Koo F., Lam B., Lee J.,
Lenz C., Li J., Liu A., Liu K., Liu S., Mukharsky N., Nauyen M.,
Palm C., Pham P., Sakano H., Schwartz J., Southwick A., Thaveri A.,
T.: Lumi M., Virsberg M., Yu G., Foderspiel N.A., Theologis A.,
Ecker J.R.,
"Genomic sequence for Arabidopsis thaliana BAC Fizel & from chromosome
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EMBL; AC003981; AAF99762.1; ...
HSSP; P08799; 1MND.
                                                           Q9FRES;
01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-DEC-2001 (TrEMBLrel. 19, Last apportation apdate)
F22013.20.
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Best Local Cimilarity 33.7%; Pred. No. 8.1e-82;
Matches 315; Conservative 129; Mismatches 276;
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SMART, SMC0242; MYSc; 1.

SMART; SMC0221; STYKC; 1.

SMART; SMC0220; S_TKC; 1.

SMART; SMC0219; T; TKC; 1.

PROSITE; PS50011; PROTEIN_KINASE_DOM: 1.

ATP-binding; Transferase.

SEQUENCE 2651 AA; 298991 MW; 1352A4284
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InterPro; IPR002710; D1L.
InterPro; IPR000048; IQ.
InterPro; IPR004009; Myosin_head.
InterPro; IPR004009; Myosin_N.
InterPro; IPR004040; STY_pkinase.
InterPro; IPR004040; STY_pkinase.
InterPro; IPR004040; STY_pkinase.
InterPro; IPR001245; Tyr_pkinase.
Pfam; PF01843; D1L; 1.
Pfam; PF00612; IQ; 6.
Pfam; PF00063; Myosin_head; 2.
Pfam; PF00069; pkinase; 1.
PRINTS; PR00109; TYRKINASE.
ProDom; PD0003376; Myosin_head; 1.
ProDom; PD0003376; D1L; 1.
                                                                                                                                                                                Arabidopsis thaliana (Mouse-ear cress).
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Enkaryota: Viridiplantae: Streptophyta: Embryophyta: Trachcophyta:
Spermatophyta: Magnoliophyta: eudicotyledous; core eudicots;
Asteridae: euasterids 1: Solanales; Solanaceae; Solanum.
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  Olympia.
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                                                                                                                              PPREKPTESTIBE - - - RSLAKQYFLDSQSLNLVFDEASSGNVVSGKDAAFSVYQ
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Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Ebrhartoideae; Oryzeae; Cryza,
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SIRAIN-CV. FARO 85;
MEDLINE-21065153; PubMed 11114160;
Fryc C.A., Tang C., Lincs E.W.,
"Negative regulation of defense responsos in plants by MAPKE kinger.",
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LeterPro; 1PR000719; Euk_F\" isase.

LeterPro; 1PR000719; Euk_F\" isase.

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Shinn P., Brooks S., Bachler E., Chao Q., Johnson Hopson C., Khan S., Kim C., Altafi H., Bei Q., Teir C., Chica J., Choi E., Cond L., Conway A., Gonzales A., Hansen N., Howing B., Koo T., Lam B., Lee J., Lenz C., Li J., Liu A., Liu S., Mukharsky N., Nguyen M., Palm C., Pham P., Sakano H., Schwartz J., Southwick A., Thaveri A., Toriumi M., Vaysberg M., Yu G., Pederspiel N.A., Theologis A., Ecker J.R.;
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1- SIMILARITY: BELONGS 10 THE SEKZIHR FAMILY OF PROTEIN KINASES.

R FMHL: AC069$51; AAF78373.1; **.

K INTERPRO; IPR000719; Euk_pkinase.

R INTERPRO; IPR004040; Ser_thr_pkinase.

R InterPro; IPR004040; STY_pkinase.

R InterPro; IPR001245, Tyr_pkinase.

R PRINTS; PR00109; TYRKINASE.

S MARE; SMO0221; STYKe; 1.

PROSITE; PS50011; PPOTFIN_FINASE FORM: 1
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01-OCT-2000 (TrEMBLrel 15, Last sequence update)
01-OCT-2001 (TrEMBLrel 19, Last annotation update)
110022.13.
Anabidopsis thaliana (Monse-car cross).
Eukaryota: Viridiplantae: Streptophyta; Embryophyta; Trachcophyta; Spermatophyta; Maquellophyta; Fresidentaephyta; Maquellophyta; Fresidentaephyta; Maquellophyta; Brassicaceae; Arabidopsis.
NOBLITAKID 2702.
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419 FARFIDPFNATESTKSSTAFKGLNNFNSDFRRREENVVPPSARSQQPLVXKNWSACNDISN
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         Alt binding, betracythreonine protein kinase; Transferase
SEQUENCE 988 AA; 107398 MW; 8040755955896FB1 CRC64;
                                           ch 23.8%; Score 1057,5: PB lo: Lenati
Laimilarity 30.3%; Fred. No. 2.6e 70:
315; Conservative 129; Mismatches 28B; Indels
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PROSITE: PS00108; PROTEIN_KINASE_ST; 1.
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P. SEQUENCE, FROM M.A.

STRAIN-CV. COLUMBIA;

A. Sakano H., Liu S.X., Etqu P., Lee J.M., Lenz C., Pham P., Toriumi M.,

A. Yu G., Chan A., Chunq M., Goldsmith A., Smith A., Vaysberg M.,

A. Altali H., Brooks S., Buehler E., Chao Q., Conn L., Conway A.B.,

A. Altali H., Brooks S., Buehler E., Chao Q., Conn L., Conway A.B.,

A. Hansen N.F., Johnson-Hopson C., Khan S., Kim C., Lam B., Miranda M.,

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B. Hansen N.F., Johnson C., Khan S., Kim C., Lam B.,

B. Hansen N.F., Johnson-Hopson C., Kim C.,

B. Hansen M., Johnson M., Johnson C.,

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B. Hansen M., Johnson
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SENERAL INFORMATION.
APPLICANT: Ecker, Joseph R.
APPLICANT: Kieber, Joseph J.
11TLE OF INVENTION: Constitutive Triple Response General Control of Internations.
11TLE OF INVENTION: and Motations
NUMBER OF SEQUENCES: 14
CORRESPONDENCES: 14
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January 12, 1993
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SHELL ALL MATCHEL GLIVY, COLA. CLIANISTING DATE: January 12, 300 CORRENT APPLICATION DATA: 800 PRIOR APPLICATION DATA: 400 COLANIST ALL MATCHES AUGUST 30, 1002 ALL HALL MATCHES AUGUST 30, 1002 ALL HALL MATCHES AUGUST 30, 1002 NAME: LOTE AUGUST 30, 1002 ALL HALL MATCHES AUGUST 30, 1002 ALL HALL MATCHES AUGUST 30, 1002 ALL HALL MATCHES AUGUST 30, 1002 ALL MATCHES AUGUST 30, 1002 AUGUST 30
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TITLE OF INVENTION: Constitutive Triple Response Gene
TITLE OF INVENTION: and Mutations
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Patent No. 5602322
GENERAL INFORMATION:
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SEQUENCE 2, Application PC/TUS9307347
GENERAL INFORMATION:
APPLICANT: Ecker, Joseph R.
APPLICANT: Kieber, Joseph J.
TITLE OF INVENTION: Mutations
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
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ZIP: 9440]
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Patent No. 6013782
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: Patent No. 6013782

: GENERAL INFORMATION:

: APPLICANT: Dedhar, Shoukat

: APPLICANT: Hannigan, Gred

: APPLICANT: Hannigan, Gred

: TITLE OF INVENTION: its Uses
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EDECEMBER: ADDRESS END FELECOMMUNICATION INFORMATION: 7ELEPHONE: 650-327-3400
TELEPHONE: 650-327-3231
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APPLICATION NUMBER:
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MEDIUM TYPE: Diskett
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US-08-955-841-5
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ZIP: 94301
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STREET: 28
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GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Action, Susan
TITLE OF INVENTION: NOVEL CSAPK-1 NUCLEIC ACTD MALECULES AND USES THEREFORE
FILE REFERENCE: MNI-050
CUBRENT AFFL: CATTOR NUMBER 18/200/221,235
CUBRENT AFFL: CATTOR NUMBER 12-28
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GENERAL INFORMATION:
APPLICANT: Dedhar, Shoukat
TITLE OF INVENTION: Interqrin-Linked Kinase and its Uses
FILE REFERENCE: KIN-2CON
CURRENT FILING DATE: 1999-09-03
EARLIER APPLICATION NUMBER: US60/009,074
EARLIER FILING DATE: 1995-12-21
EARLIER FILING DATE: 1996-11-19
COFFINE OF SEQ ID NOS: 16
SOFTWARE: FASTSEQ for Windows Version 4.0
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5; Mismatches 15:
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Harity 84.4%; Pred. No. 6.90
Conservative 25; Mismatches
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Sequence 5, Application US/09221235
Patent No. 6043040
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; LOCATION: (1)...(263)
US-09-390-425-5
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Best Local Similarity
Matches 222, Conserv
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US-09-390-425-5
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US-09-221 928-5

Sequence 5. Aprilation US/C9221928

Patent No. 6121030

GRHEBAL IMPGEMATION.

APPLICATION SUSAN

INTER OF INVENTION. MANGEL SL/CALL, ALE

FILE REFERENCE: MNI 050

CHREWIT ATLIATION NUMBEL SL/CALL, ALE

CHREWIT FILING DATE: 1998-12-28

FARLIER APPLICATION NUMBER. 09/163/117

FARLIER PETILING DATE: 2.0

SOFTWARE PATENT IN VOI. 2.0

SEQ ID NO. 5

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il Similarity 40.9%; Pred. No. 8.4e-37;
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GENERAL INFORMATION:
APPLICANT: Acton, Susan
TITLE OF INVENTION: NOVEL STAPK 1 NOTHER ACTE MORE TILE AND FIRST INFORMER PILE REFERENCE: MNI-050
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Best Local Similarity 40.9%; Fred. No. 8
Matches 112; Conservative 41; Mishatch
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TITLE OF INVENTION: NOVEL CSAPE 1 NOCLED
FILE REFERENCE: MNI 050
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SOFTWARE: PATONTIN VOL. 2.6
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CURRENT FILING DATE: 1998 12 28
EARLIER APPLICATION NUMBER: 09/164,115
EARLIER FILING DATE: 1998 09 29
NUMBER OF SEQ ID NOS: 15
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Sequence 5, Application US/09221527
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TITLE OF INVENTION: NOVEL CSAPK-1 NUCLEIC ACID MOLECULES AND USES THEPFPOP
FILE REFERENCE: MNI-050
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                                                                                                             EVAIMKSLRHPNIVLFMGAVTKPPNLSIVIEYLSEGSLYRLLHKSTVFFITETFFINHAF 681
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   Pred. No. 8.4e-37;
; Mismatches 106;
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Best Local Similarity 40.9%; Pred. No. 8.4e-37;
Matches 112; Conservative 41; Mismatches 106,
                                                                                                                                                                                                                                                                                                           801 VNPKLASLIVACWADEPWKRPSFSSIMETLKPMT 834
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CURRENT FILING DATE: 1998-12-28
FARLIER APPLICATION NUMBER: 09/163,115
EARLIER FILING DATE: 1998-09-29
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentin Ver: 2.0
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Patent No. 6153417
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US-09-221-416-5
Best Local Similarity
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TITLE OF INVENTION: NOVEL CSAPK-1 NUCLEIC ACID METECULES AND USES THEREPORE FILE KEFERENCE: MNI-050
CHERENT APPLICATION NUMBER- US/AG/163,115A
CURRENT FILING DATE: 1998-09-29
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentin Ver. 2.0
          APPLICANT: Acton, Susan
TITLE OF INVENTION: NOVEL CSAPK 1 NUCLEIC ACID MOLECULES AND USES THEBEE
FILE KEFEKENCE: MNI-050
CURRENT APPLICATION NUMBER: USZOQ/221,245
                                                                                                                                                                                                                                                                                                     564 SLOTAPH VI PWTDLPPEKICAASPOTVY WOPWOOD - VOVKILLIEGTSHEEKVRIETE OOL
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l Similarity 40.9%; Pred. No. 8.48-37;
112: Conservative 41. Mismatches 106;
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Local Similarity 40.9%; Fred. No. 8.4c
Res 112; Conservative 41; Mismatches
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                                                                CURRENT FILING DATE: 1998-12-28
EARLIER APPLICATION NUMBER, US 09/16:,115
EARLIER APPLICATION NUMBER, US 09/16:,115
NUMBER OF SEQ 10 NOS: 15
SOFTWARE: Patentin Ver, 2.0
LENGTH: 455
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US-09-221-245-5
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US-09-163-115-5
GENERAL INFORMATION:
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Patent No. 6183962
GENERAL INFORMATION:
APPLICANT: Acton, St
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Sequence 5, Application US/09221528

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